

*W. B. M. S. R.*



# The CHEMIST AND DRUGGIST

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JULY 29, 1950



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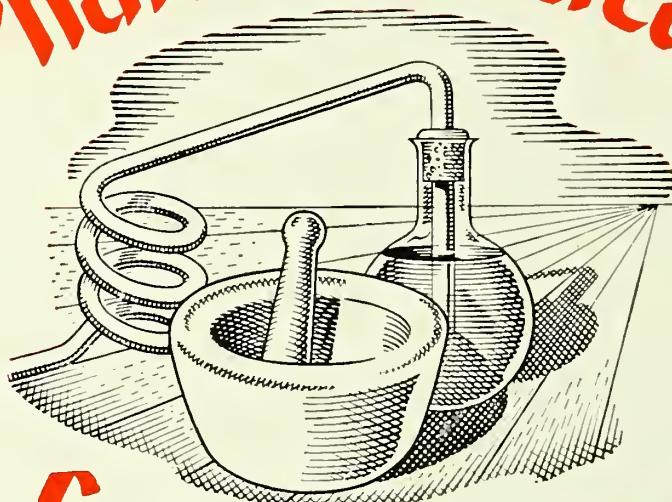
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# The CHEMIST AND DRUGGIST

for RETAILER—WHOLESALE—MANUFACTURER

JULY 29, 1950

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## NEWS OF THE WEEK

**Booklet on Atomic Defence.**—Details officially suggested defences against atom bomb's immediate and delayed effects are contained in a Home Office booklet on Civil Defence, just published by H.M. Stationery Office.

Mr. J. R. Hodges, Eastcote, Middlesex; Mr. G. P. Lewis, 61 Llandennis Road, Park End, Cardiff (see also Personalities, p. 137).

**Dressings Prices Increased.**—Small increases in the prices of absorbent cotton wool (B.P.C. and hospital qualities), grey wool, boric wool, cellulose wadding, gauze and cotton tissue, B.P.C. and gauze tissue (hospital quality) come into force on Monday, July 31.

**Statutory Committee.**—The Statutory Committee of the Pharmaceutical Society is meeting at 17 Bloomsbury Square, London, W.C.1, at 2.30 p.m. on August 2, to resume the adjourned inquiry into a complaint against a member of the Society which alleges that on two occasions he was under the influence of drink or drugs whilst employed in a pharmacy. The inquiry will be opened in public and unless the Committee otherwise directs the hearing will also be in public.

**Sulphate Turpentine.**—The Board of Trade states that restrictions on the sale and use of sulphate turpentine have now been removed. Conditions applying to sales of other types of turpentine for use in the manufacture of paints and polishes, and to retail sales, are unchanged.

**Chemical Engineering Group.**—The report of the chemical engineering group of the Society of Chemical Industry was presented at its annual meeting recently. The pre-war practice of visiting works has been resumed, and the group has continued to nominate representatives on various Committees of the British Standards Institution. Work has been started on a history of the Group, for inclusion in the history of the

**Research Fellowship Awards.**—The following have been awarded Wellcome Pharmaceutical Research Fellowships for the academic year commencing October 1:—Miss M. Dawson, Airdrie, Lanarks;



Society which it was proposed to issue in 1951 in commemoration of the Society's seventy years of existence. All officers were re-elected for 1950-51.

**Festival Exhibits.**—Manufacturers who wish to be represented in the Festival of Britain 1951 should submit details of the goods of which they are most proud before August 1. The selection of exhibits has already started, and the Council is anxious that none of the outstanding products of British industry should be overlooked. In exceptional cases, exhibits received after that date may be considered, but there is no guarantee that they will. It may be possible, when an exhibit has been chosen, for the manufacturer to substitute a more up-to-date model if the Council is kept informed of latest developments. Photographs and material should be addressed to the Chief Industrial Officer, Council of Industrial Design, Tilbury House, Petty France, London, S.W.1.

**Economy Drive in Hospital.**—As a further step towards cutting down expenses in hospitals (see *C. & D.*, July 22, p. 98) a letter has been addressed to all hospital medical staff by the chief medical officer of the Ministry of Health. Among the recommendations made are the following:

(i) The tendency for expensive drugs to be used empirically, and for several such drugs to be combined on the chance that one or other may be of value, should be avoided.

(ii) There is considerable scope for saving in such drugs as penicillin and other antibiotics. These drugs should be given only where there is a clear indication for their use and in such cases

the dosage should be carefully considered cancellation of treatments should be notified the pharmaceutical department immediately.

(iii) The extravagant use of vitamins and tonics which are too often given as a routine be avoided.

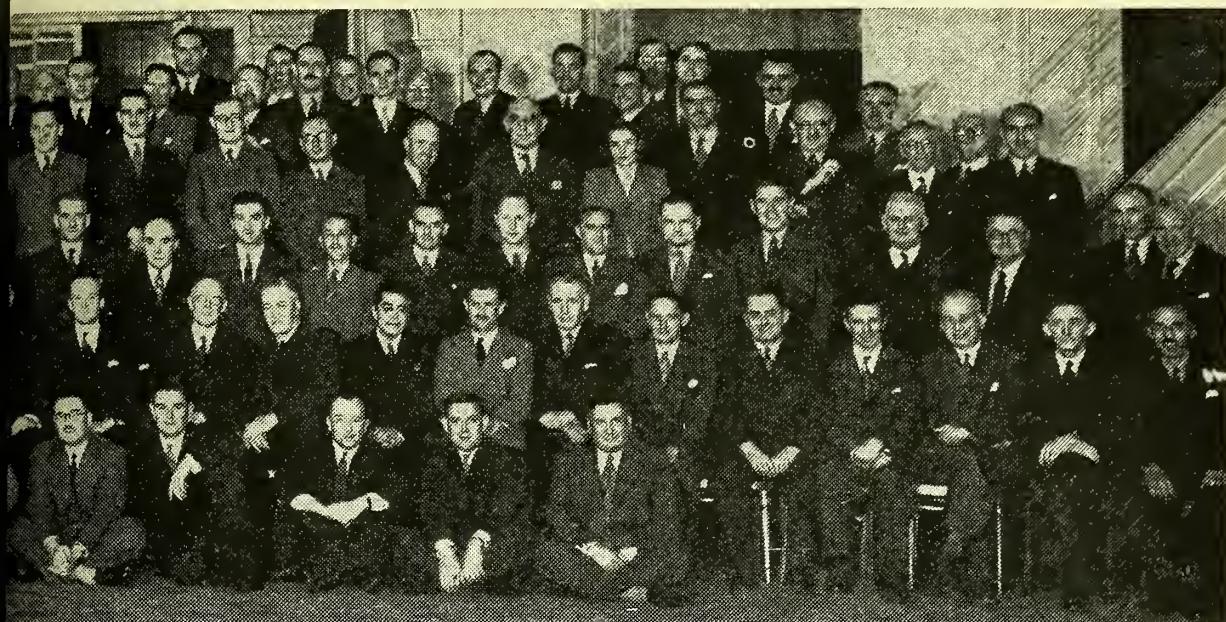
It is considered that proprietary preparations should be avoided by prescribers standard preparations which are substantially identical or of reputed equivalent therapeutic effect are available. Medical staff might find it useful to consult hospital pharmacist in this connection (Editorial comment, p. 145.)

## LOCAL NEWS

**Edinburgh Opium Theft.**—About 1 lb. of raw opium was taken by three men who broke into the premises of McFarlan & Co., manufacturing chemists, Abbeyhill, Edinburgh, during the night of July 19-20. The opium was in blocks, approx. 2 lb.; eight blocks were found on a nearby railway embankment.

**Pricing Bureau Reallocated.**—The Pricing Bureau under contract in the area of the East and Canterbury Executive Council have been informed that they are required to send their prescriptions for July and the subsequent months to the Superintendent of the East Anglian Prescription Pricing Bureau, Leytonstone, London, E.11 (E.10).

**East Metropolitan Branch.**—The East Metropolitan Branch of the Pharmaceutical Society are holding their third annual summer event on August 3, meeting at the Wilfrid Lawson Hotel, Woodford Green, at 2.30 p.m. A walk in Epping Forest

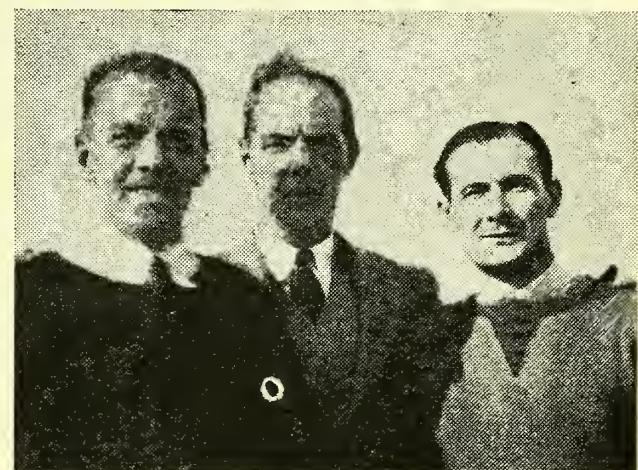


Representatives of Evans Medical Supplies, Ltd., in Conference recently at Speke.

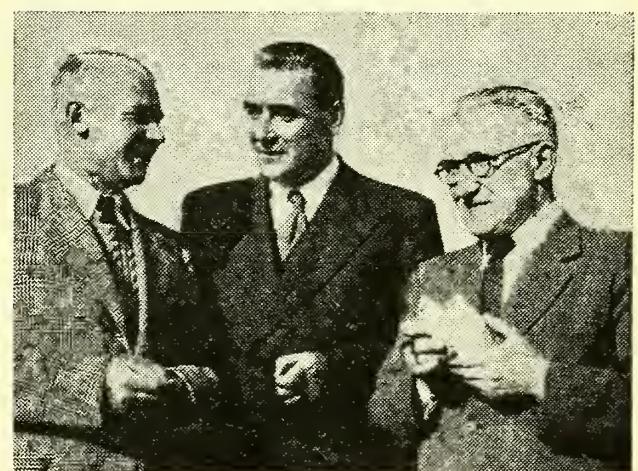
be conducted by Mr. L. H. Moppett at 7 p.m. a meeting will be addressed by Mr. J. F. McNeal on "Pharmacy—the Five Years."

**Harrow Branch Officers.**—The following have been appointed officers of the Harrow Branch of the Pharmaceutical Society for the forthcoming year:—*Chairman*, Mr. W. Tomski; *Vice-chairman*, Mr. E. W. Gibson; *Treasurer*, Mr. F. J. Aduit; *Secretary*, Miss D. I. Morgan, Dispensary, The Princess Louise Kenton Hospital, St. Quintin Avenue, London, W.10; *Social Secretary*, Mr. G. W. Slesley; *Deputy Secretary*, Mr. H. M. Kett; *Publications Officer*, Miss M. E. Ur.

**Staff Outings.**—About eighty persons down to lunch at Newquay when the staff of Evans, Gadd & Co., Ltd., Exeter, had their annual outing on July 8. Directors were represented by Messrs. W. N. Urne and A. S. Tucker. Telegrams were received from the chairman of the company (Mr. H. Wippell Gadd) and Mr. T. Symes who, unable to attend, broke sequence of forty-seven previous attendees at outings.—A boat was chartered recently to take approximately 130 of the staff and associates of J. R. Gibbs, Ltd., Bognor, on a voyage along the coast of South Devonshire, calling at Salcombe. The return trip afforded a fine view of illuminations in Torbay.—The annual staff outing of William Martindale Wholesale, Ltd., London, W.1, was held on July 10 the party going by coach to Margate.



IRISH CHEMIST GOLFERS (NORTHERN AND SOUTHERN) AT DUNDALK. Above: The two Northern winners in the B.D.H. cup competition (Messrs. H. Paul and C. Hall) with Mr. P. C. Cahill. Below: The secretaries of the Irish and the Ulster Chemists' Golfing Associations with Mr. William Mullen (B.D.H. representative in Eire). Left, Mr. Harry Boyd; right, Mr. Phil Fahey, Dublin.



**Bebington Chemists' Outing.**—Bebington and Mid-Wirral Chemists' Association enjoyed a novel afternoon's outing on July 9—a motoring rally organised by their chairman (Mr. E. A. Hebron) and Dr. B. Carruthers. Fourteen cars conveyed members and their friends on a secret route along the highways of the Cheshire countryside. Starting at five-minute intervals, each car was given details of the route to be followed and a series of objects to spot on the way. Prizes awarded by the chairman were presented to Mr. T. Brigham, Dr. J. Moorhouse and Mr. T. Schofield—the drivers of the three cars obtaining most marks for correct answers and time-keeping.

**Disciplinary Action at Coventry.**—The Pharmaceutical Service Committee of the Coventry Executive Council has recommended that a chemist should be fined £10 for demanding threepence deposit on a bottle. The customer said that the chemist showed her the back of an old National Health Insurance form stating the necessity for payment of a deposit on the bottle. The chemist told the Committee that he considered he had a right to demand a deposit, and if the customer had brought back a dozen medicine bottles he would have refunded threepence on each. The Executive Council, on July 18, decided to reduce the penalty to £5.

**N.H.S. in Middlesex.**—The following were appointed officers at a recent meeting of the County Pharmaceutical Committee:—*Chairman*, Mr. T. B. Robinson; *Vice-chairman*, Mr. L. Hayward; and *Secretary*, Mr. J. Anderson Stewart, 21 Bloomsbury Square, London, W.C.1. In August 1949, 752,290 prescriptions valued £126,575 were dispensed in the County and 836,783 prescriptions valued £137,486 in September 1949. For both months the payment on account was equivalent to only 75 per cent. of the final payment, but the supplementary amount for October 1949, paid during March brought up this figure by 11 per cent. The pricing check by the National Pharmaceutical Union for March and April 1949 showed differences of +0.07 per cent. and +0.14 per cent. from the figures given by the pricing office.—The Middlesex Executive Council has passed a resolution strongly disapproving of any change, other than by properly conducted negotiations through the appropriate Whitley machinery, in the terms and conditions under which professional men were invited to enter National Health Service. The Ministry is to be informed.

## IRISH NEWS

**Gaelic Sport at Carlow.**—The College of Pharmacy G.A.A. football team drew with Graiguecullen (the Leix County champions) at Carlow on July 19. The ladies of the Camogie team, which also visited Carlow, had to concede victory to a stronger side. After the games the Graiguecullen Club gave a reception to the pharmacist visitors, which was followed by a dance.

**Examination Results.**—Of the sixty-nine candidates who sat for the July Licentiate examination of the Pharmaceutical Society of Ireland, the following passed: Benjamin Bailey, Margaret M. Cotter, Mary Fitzpatrick, Margaret Mary Fallon, Bridget Gavaghan, Mrs. M. M. Halpenny, Henry Horan, Mary Liffey, Henry J. Linehan, Michael S. Madden, Catherine Murtag, Mrs. Mary MacCarthy, Margaret Nola Francis O'Reilly, James P. Roche, Brenda J. Smith.

## OVERSEAS NEWS

### Egyptian Purchase of Medical Products

—The Egyptian Minister of Health has announced that he will shortly ask the Cabinet for the opening of a credit of £E7,000,000 for the purchase of medical products.

**Drug Addicts in Germany.**—A conference of world detectives was told at The Hague recently that there were 3,000 drug addicts out of a population of 25,000,000 in the British zone of Germany. In air-raid shelters as the bombing intensified during 1939-45 morphine was given as a routine measure to everyone entering the shelter, and the practice has given rise to addiction.

**"Repeat" Prescriptions in the U.S.**—A Bill now before the United States Congress is designed to clear up existing confusion among American pharmacists over their right to repeat a prescription without referring it back to the physician. Though formerly prescriptions, other than those containing narcotics or dangerous drugs, could be "filled" without restriction, the Food and Drug Administration made a rule a year ago that the dispensing of prescriptions could not be repeated unless so ordered by the doctor. The Bill, sponsored by a pharmacist, Representative C. T. Durham of North Carolina, proposes that the F.D.A. should draw a list of drugs that cannot be freely dispensed.

## TOPICAL REFLECTIONS

### Contracts of Service

The second editorial article on p. 115 sums up concisely the advantages of written contracts of service, even where there is no statutory requirement for them. Employment in manufacturing and wholesale houses is to a considerable extent standardised in consequence of well-known developments. But conditions in retail business vary so much from shop to shop that, in spite of Joint Industrial Council agreements, a single form of words or a set of such forms may cause unforeseen trouble if hithinkingly adopted when an assistant is engaged. It may be argued that verbal agreements between employers and assistants have worked well for many years past, and are likely to work well in future. Though they have, it does not follow that they will. With the unceasing flow of Statutory Instruments, each possibly modifying or cancelling some statement in legal textbook, prudent employers desire to have as much definiteness when engaging an assistant as when taking an apprentice. Assistants will sooner or later realise that definiteness in the terms of their engagement is to their own advantage. An illustration suggested by your editorial comment is provision for holidays. Annoyance to both parties can be obviated if assistants' holidays are carefully arranged at the outset of an engagement, not only as to length but also as to division, if necessary or desirable, into portions. Similarly, the period of notice is more satisfactory if clearly laid down than if referred to the custom of the trade, however widely accepted the custom may be.

### Cash for Dispensed Medicines

In your Local News on July 22 there was a paragraph (p. 99) showing that in Edinburgh, last year, the public purchased medicine costing £228 at the Provident Dispensary of the city. It was added that this figure is about half the usual annual total of payments at the same institution before the commencement of the National Health Service. The meaning of this cash payment for medicine supplied is worth considering. We must infer that, unless the Scottish character has changed considerably of late, the medicine alluded to was bought and paid for because it was worth the money. The circle of aggrieved retail chemists in the United Kingdom has now been completed by the addition of those in the Isle of Man (p. 100). Putting

such facts together, it looks as if dissatisfaction with the service is beginning to result in a desire to ignore it whenever this course appears to be preferable. If a popular movement in this direction sets in, there will probably be fewer forms to be completed and fewer typists wanted in hospitals. Owners of pharmacies will naturally shun the danger of putting too many eggs into any one basket. While conscientiously declining to recommend medicines to customers who obviously, or even probably, ought to consult a medical practitioner, they will not overlook the legitimate scope of a counter trade long carried on to the general satisfaction. It will make a substantial difference to a banking account if the N.H.S. payment in arrear represents a small percentage of one's turnover instead of the greater part of it.

### Apparatus in 1850

Those of us who have not visited the "Medicine in 1850" exhibition at the Wellcome Historical Museum will be glad to read your account of it (pp. 112-13); and those who have been there will be able to compare their impressions with yours. Some of the exhibits illustrated on p. 113 can be paralleled, as might be expected. The Oxford Museum of the History of Science has a metal spoon (in pewter, I think) for administering nauseous medicines; it differs slightly from the Wellcome Museum specimen in the position of the hinged flap. An example of an enema syringe "with reservoir" may still be discoverable in an old pharmacy here and there. Many years ago I interested a surgeon by showing him one: he was of opinion that the use of the apparatus involved a definite danger to a patient, because of the force likely to be applied in its ordinary domestic use. The wooden suppository mould illustrated was presumably laid on its side when fulfilling its function; the finished product may well have lacked elegance. Your remark that in 1850 scientific observation was becoming more accurate with the invention of more accurate tools goes to the root of the matter. The mid-nineteenth century was a time of keen and well-directed curiosity in science; and we, inheritors of the results then obtained, owe much to them. The mid-twentieth century, with increasing knowledge of radioactive materials, may also be a period of revolutionary changes in medical treatment.

Xrayser

## NEW COMPANIES

J. PARROTT, LTD. (P.C.).—Capital £500. To carry on the business of wholesale, retail and manufacturing chemists, druggists, etc. Jessie M. A. Anderson and William W. Louvell, directors. R.O.: 10 Copthall Avenue, London, E.C.2.

A. H. DAVISON (CHEMISTS), LTD. (P.C.).—Capital £2,000. To carry on the business of wholesale and retail chemists and druggists, etc. Lily Taylor, and Archbold H. Davison, M.P.S., directors. R.O.: 105 Bensham Road, Gateshead, co. Durham.

HANDS PHARMACY, LTD. (P.C.).—Capital £2,500. To carry on the business of chemists and druggists, opticians, etc. Ivor J. Cunningham, M.P.S., and Dorothy R. Cunningham, directors. R.O.: 95 Fenchurch Street, London, E.C.3.

ACTIVATED CARBONS & CHEMICALS, LTD. (P.C.).—Registered in Edinburgh. Capital £5,000. To carry on the business of chemical manufacturers, millers, grinders, etc. John S. Young, and Elizabeth B. Young, directors. R.O.: 257 Eglinton Street, Glasgow.

LATYMER COURT PHARMACY, LTD. (P.C.).—Capital £2,500. To carry on the business of manufacturing, wholesale and retail chemists and druggists, etc. Arthur J. Smith and Dennis F. Price, directors. R.O.: 166 Hammersmith Road, London, W.6.

F. X. MEAGHER, LTD. (P.C.).—Registered in Dublin. Capital £10,000. To carry on the business of a pharmaceutical chemist at 10 Upper Baggot Street, Dublin. James G. O'Connor, subscriber, 9 Clare Street, Dublin. Directors are not named.

MARCH CHEMICAL CO., LTD. (P.C.).—Capital £500. To carry on the business of manufacturers of and wholesale and retail dealers in cosmetics, soaps, perfumes, chemicals, etc. Kenneth C. Ellis and Alfred March, directors. R.O.: 8 St. Peters Lane, Leicester.

EMPIRE DISTRIBUTING CO. (DISINFECTANTS), LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturers of and dealers in disinfecting preparations, etc. Edward G. Knowles, Frank L. Parkinson and Walter Parkinson, directors. R.O.: Kay Street, Preston.

NORTON & RICHARD LABORATORIES, LTD. (P.C.).—Capital £500. To carry on the business of manufacturers of, dealers in and agents for laboratory reagents, chemi-

cals, etc. Stephen Z. Norton and Mich L. Johnhouse, directors. R.O.: 31 King Road, Sloane Square, London, S.W.3.

BARFOS, LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturers and dealers in mineral water and of bottling, bottle washing and label machinery; manufacturing chemists, dealers of essences, druggists, etc. Augustus F. Blaxter, Cyril G. Blaxter, Leslie Clarke, Stanley G. Kendrick, directors. R.O.: Eagle Wharf Road, London, N.1.

DARGANS (CHEMISTS), LTD. (P.C.). Registered in Dublin. Capital £20,000. To acquire the business of a pharmaceutical chemist now carried on by Joseph K. Dargan at 19 Berkeley Street, and 26 Blessington Street, Dublin, and at 8 Main Road, Cashel, co. Tipperary. Joseph K. Dargan, M.P.S.I., and Theresa Dargan, M.P.S.I., directors.

## Company News

SOLPORT BROTHERS, LTD.—Mr. S. Glaysher, works manager, has been appointed a director.

BRITISH GLUES & CHEMICALS, LTD.—Net consolidated profit for the year ended April 30 is £253,344 after providing £323,000 for taxation. This compares with £94,567 for the previous year when the tax provision was £172,000. To this is added £8,341 (£11,851) loss of subsidiary applicable to minority interests, £51,000 taxation provision not required (£73,172 provision against fall in value of raw materials, etc., not required). All in all £259,000 (£130,000). Second interim dividend 20 per cent., making 25 per cent. (same) for the year.

DISTILLERS, CO., LTD.—Trading profit for the year ended March 31 increased by £12,837,691, compared with £10,361 in the previous year. A sum of £100,000 has been brought in from investment in subsidiary companies. The allocation to general reserves and the allocation to general reserves is reduced to £512,923 from £773,000 to increase the sums carried forward by subsidiaries from £1,347,772 to £2,795. The carry-forward of the parent company is raised to £1,172,524 from £1,001,000 brought in. Dividend for the year is brought to 20 per cent. by a final dividend of 15 per cent. This compares with 20 per cent. paid in 1949 on two-thirds of the amount of nominal capital.

## SUMMONSES UNDER SWEETS ORDER DISMISSED

a case that came before Clerkenwells' magistrates' court on July 4, 12 and Camden Chemical Co., Ltd., 61 Gray's Road, appeared on a number of summonses. They pleaded guilty to charges of contravening the Chocolate, Sugar Confectionery and Cocoa Products Order, 1949, by delivering to other traders a specified product (linseed, liquorice and chlorodyne lozenges, described as linseed, liquorice and chlorodyne lozenges) without clearly indicating on the label and in the invoices the particulars required by the Order. (Lozenges were stated to have been supplied to Evans Drug Stores, 107 Norwood, and T. C. Thomas (Chester), Ltd., Queensbury, Middlesex).

### Nature of the Charges

Defendants pleaded not guilty to charges of rendering labels illegible. For the prosecution it was stated that the matter arose out of the price control imposed on sweets, more specifically, out of measures designed to bring the controlled price to the attention of traders and the public. The allegation was that the defendants did not put out the particulars required on the labels, and did not specify them on the invoices. There was a proviso of the Order that it was open to a defendant to show there was no intent to deceive; this would be important in considering summonses for rendering labels illegible. Defendant company dealt in medicated sweets, some of their own manufacture, some manufactured for them by Barratt & Co., Ltd., London, N.22, from materials supplied, and some manufactured by Messrs. Barratt as part of their standard production, sold to the defendants, and resold by them to retail chemists and other traders. The sweets that were the subject of the prosecution were C lozenges, incorrectly named linseed, liquorice and chlorodyne lozenges. It was understood that the description had been correct forty years ago, but there was now no linseed and certainly no chlorodyne in lozenges. Between January and November 1949 defendants purchased a total of about three tons of the lozenges at a price of about 1s. 6d. per lb., plus purchase tax. They affixed their own labels over labels supplied by Messrs. Barratt and resold to retailers at 4s. per lb. In reply to an inquiry defendants wrote to say that the lozenges were normally manufactured in their factory but that on this occasion

Messrs. Barratt had helped them out and an unfortunate error had been made. It had been ascertained, said counsel, that none of the materials were supplied to Messrs. Barratt.

The case for the prosecution was completed on July 12. According to prosecuting counsel the lozenges were eventually sold to the public in chemists' shops at 8s. per lb., the maximum price under the Order being 2s. 10d., in accordance with the group classification of the lozenges. An official in the Chocolate and Sugar Confectionery Division, Ministry of Food, said that in October 1949 the Ministry had issued a licence to the Camden Chemical Co. authorising them to manufacture and sell certain products free of the provisions of the Chocolate, Sugar Confectionery and Cocoa Products Order. If the defendant company had wanted another company to manufacture for them from their own materials, they should have obtained a Transfer of Production Licence.

### Powers Questioned

Under cross-examination, the secretary of the Sugar Confectionery (War-time) Association said that he could not answer, otherwise than by quoting Ministerial approval for its constitution, a question whether any written or spoken direction had been given by the Minister to the classification of LLC lozenges within group S 30. An official of the Ministry of Food declared that the Association was authorised to classify sugar confectionery. The magistrate said they were dealing with an Order in which it was provided that, for a breach of it, someone might go to prison. Once one started touching the liberty of the subject he thought that anybody was entitled to start looking round to see if there was a gap, and whether the case was proved in every particular. The Association's constitution, he said, had been approved by the Minister, but "the mere formation of an Association, consisting of members of the trade and two members nominated or appointed by the Minister, does not of itself, to my way of thinking, give that committee, or whoever it is, consisting of other manufacturers, power to act for the Minister."

He could not see that any authority had been given. In dismissing the whole eleven charges the magistrate said he was satisfied the Association had acted properly.

## THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

THE President of the Board of Trade was asked by SIR WALTER SMILES on July 18 if he was able to give any further information as to claims under the Business Scheme of the War Damage Act. MR. H. RHODES (Parliamentary Secretary) told him that £50 millions had been paid out under the Business Scheme, including £45 millions on grounds of public interest or undue hardship. The Minister could not give a date when the general settlement of claims would be fixed.

### Parcel Post Damage

On July 19 the Postmaster-General was asked if he was aware that serious damage was frequently done to drawings and negatives sent through the post, even when in metal cases, and if he would issue instructions that more care should be exercised in future when dealing with parcels. MR. NESS EDWARDS replied that he was not aware of the matters referred to, but would make full inquiry if given details. Standing instructions issued by the Department provided that parcels should be handled carefully.

### Business Names Registration

MR. G. P. STEVENS asked the President of the Board of Trade on July 20 if he would instruct the Registrar of Business Names to alter the wording of note 7 of the section dealing with names in the registrar's leaflet, R.19, in order to remove its mandatory character. MR. HAROLD WILSON replied that the leaflet was not a statutory document and did not purport to be one. It set out, for the guidance of the public, what was in fact the practice of the Registrar in those matters. The practice was based on the proposition that, in the absence of good reasons to the contrary, the use by an applicant of a name that was not his own was undesirable. He saw no reason why either the practice or the wording should be altered.

### Dispersal of Key Industries

LIEUTENANT-COMMANDER BENNETT asked the President of the Board of Trade on July 20 what steps he was taking to secure the dispersal of key industries as a measure of civil defence. MR. HAROLD WILSON: Arrangements exist for planning the dispersal of existing key industries in the event of an emergency. The need for dis-

persal is also taken into account among other factors before approval is given to expansion schemes in the industries within the category.

### Ophthalmic Services

MR. J. JOHNSON asked the Minister of Health how often a person might have his sight tested under the supplementary ophthalmic services. MR. ANEURIN BEVAN often as necessary. But I am relying on ophthalmic medical practitioners and ophthalmic opticians not to test a person's sight unless they feel that he really needs it and that different spectacles may be required.

In the House of Lords the Medical Bill was read a third time on July 21.

## AUSTRALIAN CHEMISTS APPROVE HEALTH SCHEME

THE Pharmaceutical Guild of Australia agreed to co-operate in the working out of the Commonwealth's National Health Scheme, further details of which have been announced by the Federal Minister of Health (Sir Earle Page). The Federal Executive of the Guild is now working with Government experts in preparing the necessary machinery. Under the scheme the doctor will write a prescription in a special form on note-paper provided by the Commonwealth Health Department.

### Reimbursement Later

Prescriptions will be handed to a chemist to prescribe, and the chemist will later be reimbursed by the Commonwealth Health Department. Not more than two prescriptions from the approved list will be included on the one form; there will be a limit on the number of "repeats," a limit on the life of the prescription. Chemists will be free to prescribe at their discretion. Every precaution will be taken to prevent the extravagant use of drugs, a new list of which is now being prepared for free issue under the new scheme. The Minister for Health states that the compounding of medicines by retail chemists will be carried on with "perfect freedom" as in the past. The Pharmaceutical Guild is urging all chemists to co-operate in the scheme. (The Commonwealth Repatriation Department has been for many years providing free medicine to ex-Service dis-

## BIRTH

CLEAN.—At Redlands Hospital, Glasgow, on July 16, Mabel, wife of James M. Clean, M.P.S., 121 Randolph Drive, Glasgow, of twin daughters.

## MARRIAGE

DUFFY.—At St. Joseph's Church, Ley Road, Dublin, recently Lieutenant Seamus Fox, M.P.S.I., Curragh Camp, co. Kildare, Eire, to Bernadette , radiographer at the same hospital.

## DEATHS

BARKER.—At the Royal Lancaster Infirmary, on July 21, Sir Herbert Barker, eighty-one. Born in Southport, Herbert Atkinson Barker trained as a bone-setter with a cousin then in practice in London, and later, when in practice in Cheltenham on his own behalf, earned a reputation for exceptional skill. From the beginning he was in conflict with the medical profession. In 1936, however, at the suggestion of the British Orthopaedic Association he demonstrated his methods at Thomas's Hospital London, and in films of later demonstrations at the Royal Hospital Cheltenham were made for teaching purposes. He was knighted in 1922.

DICK.—On July 13, Mr. James Anderson Den Dick, M.P.S., 68 Ulwell Road, Weymouth, Dorset. Mr. Dick qualified in 1912 and was for forty years in business at 2 Wimborne Road, Bournemouth.

HANKINSON.—On July 14, after a week's illness, Mrs. Mary May Hankinson, 12 Grange Gardens, Hendon, London, N.W.4, wife of Mr. G. H. Hankinson, M.P.S., managing director of G. H. Hankinson (London), Ltd., 57 Watford Way, Hendon, and formerly of Grange-over-Sands.

Powell.—On July 2, Mr. Lawrence Las Powell, M.P.S., 116 Melfort Road, Thornton Heath, Surrey. Mr. Powell qualified in 1921.

LEY.—At the General Hospital, Birmingham, on July 19, after a short illness. Herbert Edwin (Bert) Riley (managing director of G. W. Riley, Ltd., chemists, 10 College Road, Handsworth, Birmingham). Mr. Riley was a member of Alchemy since 1950, and a founder member and a Master of the Connaught Lodge 4802 P.P.G.Std.Br. (Worcs). He carried on business at College Road for more than 20 years and is survived by his widow,

one son (Dr. H. E. Riley, of Southern Rhodesia) and a daughter.

SCORGIE.—On March 25, Mr. Robert Lind Scorgie, M.P.S., Montrose, Bassett Avenue, Southampton. Mr. Scorgie qualified in 1907 and had retired from the position of territorial manager, Boots, Ltd.

WOOTTON.—Suddenly on July 12, Mr. Norman John Wootton, M.P.S. Mr. Wootton, who qualified in 1922, was the owner of a pharmacy at 35 Abbey Road, West Bridgford, Nottingham, which he was about to open when he was taken fatally ill. Before going to West Bridgford, he was employed in a retail pharmacy in Portsmouth. He was a member of the West Bridgford Chamber of Trade, was a keen philatelist and a prominent member of the local operatic society. He is survived by his widow and a married daughter.

## PERSONALITIES

MR. C. A. NOBLE, M.P.S., has been appointed to fill the vacancy on the London Executive Council caused by the death of Mr. A. R. Melhuish.

MR. STANLEY ROBSON, M.Sc., D.I.C., F.R.I.C., has been elected president of the Society of Chemical Industry for a second year.

DR. CHARLES HILL, M.P., has resigned from the office of secretary of the British Medical Association in order to devote his full energy to Parliamentary affairs.

Miss M. DAWSON, Ph.C., one of the three new Wellcome Pharmaceutical Research Fellows (see p. 129) has been a member of the staff of the school of pharmacy, Royal Technical College, Glasgow, since 1947—the year in which she gained her Ph.C. diploma. She will undertake research at that College on the properties of pyrogenic substances. Mr. J. R. HODGES, B. Pharm., who holds a University of Wales degree, was a member of the staff of the Welsh School of Pharmacy, 1943-44, and of the department of pharmacology of the Welsh National School of Medicine 1944-45, and has since been employed in pharmaceutical work. He will undertake research in pharmacology at the school of pharmacy, University of London. Mr. G. P. LEWIS, who also holds the B.Pharm. degree of the University of Wales, will use his Fellowship to undertake research at the Welsh National School of Medicine into the properties of a group of newly synthesised antihistamine compounds.

## TRADE NOTES

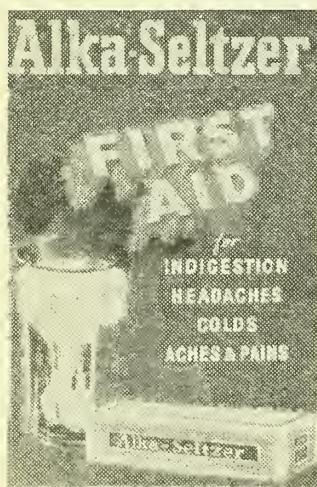
**Tablets for the Trade.**—Buckley-Bowker Tablet Co., Ltd., 29 Parkfield Street, London, N.1, offer to make compressed tablets, packed or in bulk.

**Address for Inquiries.**—Inquiries for San-Joy Panettes for lavatory hygiene should be sent to the manufacturers, Eatons (Mcr.), Ltd., 87 Mosley Street, Manchester, 2.

**Addition to Range.**—To facilitate the administration of pregnenolone, B.D.H., in doses larger than 100 mgm., The British Drug Houses, Ltd., Graham Street, City Road, London, N.1, have made available vials of 10 mils containing 100 mgm.

**Small Size Reissued.**—A. Wander, Ltd., 42 Upper Grosvenor Street, London, W.1, announce the return of the small-size tin of Ovaltine. Advertisements for the product will in future include a reference to the extended range of sizes.

**Again in Free Supply.**—John Wyeth & Brother, Ltd., Clifton House, Euston Road, London, N.W.1, state that Bplex elixir is again available. The elixir, now derived from yeast extract, contains the complete B-complex, fortified with standard amounts of thiamine hydrochloride, riboflavin and niacinamide.



**Price Changes.**—Revised prices for Phillips tonic yeast, from August 1, are announced by PHILLIPS YEAST PRODUCTS, LTD., Minerva Road, Park Royal, London, N.W.10.—ROCHE PRODUCTS, LTD., Broadwater Road, Welwyn Garden City, Herts, announce new prices, operative from August 1, for Liquemin brand heparin solution, 1,000 i.u. per c.c. and 5,000 international units per c.c., in 5-c.c. phials.

**How to Use a Nebuliser.**—Ciba Laboratories, Ltd., Horsham, Sussex, point out

that, in order to secure the intended spray of Antistin-Privine from the nebuliser issued by the company for the product, the nebuliser should be held vertical and the tube held so that the top of the ball of the thumb is level with the arrow on the label. The tube is then firmly and sharply pressed, and a fine mist is delivered.

**Holiday Closings.**—The laboratories and offices of CIBA LABORATORIES, LTD., Horsham, Sussex, will be closed from Friday evening August 4, until Tuesday morning August 8.—The premises of GLAXO LABORATORIES, LTD., Greenford, Middlesex, will be closed from Friday evening August 4, until Tuesday morning August 8 (emergency staff available between 9 a.m. and 12 noon on August 5). The works and warehouses of HOWARTH & SONS, LTD., Ilford, will be closed from July 22 until August 8.

**Middle Tones in an Ortho Film.**—Photocam Roll Film Co., Auchencarrow, Castle Douglas, Scotland, are commencing the marketing of their Photochrome films through chemists. The main feature of the film is its special middletone gradations. The emulsion has characteristics (other than colour sensitivity) as near as possible equivalent to those expected of medium-speed panchromatic fine-grain film. In the hands of the amateur it gives the tone advantages of a panchromatic medium speed with the easier handling and lower price of orthochrome.

**Show Material.**—EXECUTIVE PERFUMES LTD., Darley House, West Street, Leek, have produced a three-dimensional showcard of unusual design for their travel-size Cheviot after-shave lotion and other products; the showcard is available to all stockists.—RICHARD HUDNUT, LTD., Power Road, London, W.4, have made available to stockists of their hair preparations a display stand adapted to the display of any of the company's hair products (enriched crème shampoo, crème rinse, dandruff treatment, crème hair-dressings). The display may be used for the 2-oz. 8-oz. bottles, or both; applications stands should be made direct to company.

**Reintroduced.**—Boots Pure Drug Co. Ltd., Station Street, Nottingham, announce the reintroduction of Physos brand chorionic gonadotrophin B.P. in packs of three ampoules containing 500 1,000 international units (and not as

erly). The product is indicated in conditions (delayed puberty, primary amenorrhœa, ovulatory failure, hypomenorrhœa, and some types of sterility) due to inadequate secretory activity of the ovaries arising from deficient secretion of the gonadotrophic hormones by the anterior pituitary gland. In the male it is used in the treatment of cryptorchidism, primary micturition and Frohlich's syndrome. The ampoules are accompanied by three ampoules of solvent.

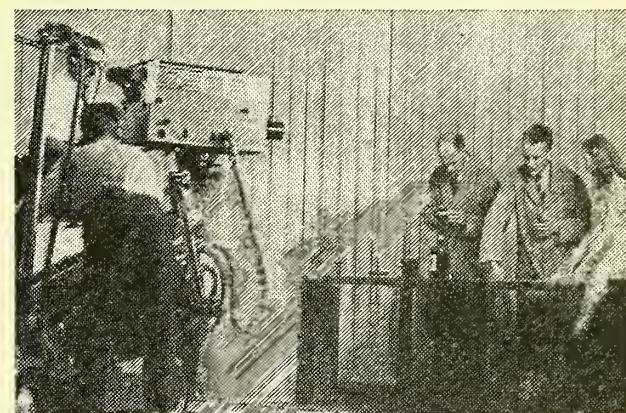
**Treatment of Peptic Ulceration.**—The ganglionic blocking action of hexamethonium compounds has so far been utilised both in reducing hypertension and inhibiting gastric motility in the treatment of peptic ulceration. Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, point out that Vegolysin brand hexamethonium bromide (see *C. & D.*, July 15, p. 74), is presented especially for the suppression of acid secretion, etc., in peptic ulceration treatments. The average daily maintenance treatment consists of intramuscular injections of 100 mgm. at intervals of 4-6 hours or of one to three 100 mgm. tablets dissolved in water and taken four times daily half an hour before food.

**Holiday Snapshot Competition.**—Penguin Photo Products, Ltd., 12 Laing's Corner, Mitcham, inaugurate on August 7 a holiday snapshot competition, which is being nationally advertised. Over £200 is offered in prizes, with weekly prizes extra. The main contest closes on October 10. Dealers supplying the winning competitors will also receive a prize. Entry forms are supplied with Penguin films (all sizes) distributed during the run of the competition, direct from the manufacturers. Prize-winners will be announced in the advertisement pages of the *C. & D.* The company have enlarged their dispatch department and installed an additional telephone line so that urgent orders can be dispatched the same day.

**A New Borax.**—Borax Consolidated, Ltd., Regis House, King William Street, London, E.C.4, announce the introduction of Neobor, a free-flowing, fine granular form of borax, stable under normal atmospheric temperatures and pressure, yet containing only five instead of the ten molecules of water present in ordinary borax. Neobor contains in fact, one-third less water than fully hydrated borax. Scope for its use exists in all industrial processes in which

ordinary borax is now employed. In processes requiring the borax to dissolve in water or involving fusion, when the escape of the water of crystallisation imparts a stirring action to the furnace charge, Neobor is superior to anhydrous (dehydrated) borax which, though admirable in many ways, is slower in dissolving in water and does not agitate the melt during fusion.

**Televised Talks on Photography.**—Johnsons of Hendon, Ltd., Hendon Way, London, N.W.4, point out that, in demon-



strations given in the children's hour on television on July 19, Mr. Gordon Catling, who showed how to develop a film and make prints, used a Johnson Universal tank, Exactum printer and plastic printing frame and dishes of the company's make.

## Proprietary Articles Trade Association

**Alterations to Protected List (Part 1).**—*Vick International, Ltd.*, Vick vapour rub,  $\frac{3}{4}$ -oz. jar, 12s. 7d. doz., tax 33 $\frac{1}{3}$  per cent., inclusive retail price 1s. 9d.; (new size),  $1\frac{1}{2}$ -oz. jar, 19s. 9d. doz., tax 33 $\frac{1}{3}$  per cent., i.r.p. 2s. 9d. (Additional 5 per cent. on orders of 8 doz.  $\frac{3}{4}$ -oz. or 4 doz.  $1\frac{1}{2}$ -oz.).

**Additions to Protected List (Part 2).**—*Wigglesworth, Ltd.*, Glycologue jelly, new size, 6s. 6d. doz., 1 doz. 6s., tax 100 per cent., i.r.p. 1s. 3d.

*Benger Laboratories, Ltd.*, Benger's food, size 3 (5-lb.), 13s. doz., 13s. 6d. Benger's junket powder, 4-pint, 10s. 5d. doz., 1s. 2d. Benger's malted milk, 8-oz., 22s. 6d. doz., 2s. 6d. (all exempt from tax).

**Deletions from Protected List (Part 2).**—*G. W. Harrison, Ltd.*, Harrison's reliable rat poison; Rattabs; hair colour restorer and weed killer.

*S.R. Van Duzer & Sons, Ltd.*, Mrs. Allen's worlds hair restorer, Bridal Bouquet, Bloom, Melrose favourite hair restorer.

# PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

A MEETING of the Council of the Pharmaceutical Society of Northern Ireland was held on July 22, the president (Mr. P. R. W. Shinner) in the chair. Also present were Messrs. H. W. Gamble (vice-president), W. H. Boyd (treasurer), H. P. Crossin, W. P. Ewart, C. Abernethy, Walter C. Tate, H. H. Cowzer, J.P., Dr. H. D. Heazley, and Professor E. B. C. Mayrs, M.D. The secretary (Mr. William Gorman) was also in attendance. Apologies for absence were received from Messrs. S. E. Campbell, F. R. Moore, J.P., H. F. Moore and J. McDowell. Mr. Crossin was welcomed on his return to the Council after recovering from his injury.

Mr. James Irwin (Druggists' representative on the Council) wrote tendering his resignation owing to the difficulty of attending the meetings through changes on his staff. He expressed regret at having to relinquish his position. On the motion of MR. GAMBLE, seconded by MR. ABERNETHY, it was decided that Mr. Irwin should be asked to reconsider his decision.

A letter was received from the clerk to the Statutory Committee stating that the Committee had inquired into the case of a firm of chemists convicted of offences under the Medicines, Pharmacy and Poisons Act referred to it by the Council and that the facts having been proved, a reprimand was given to the firm.

## Morphine in Ambulances

There was a discussion on a letter asking for the Council's opinions on the proposed carrying of morphine in ambulances and at first aid stations. THE PRESIDENT pointed out that there was no such provision in Northern Ireland. MR. GAMBLE said that there was not the same call for it where doctors were quickly available in cases of accident, but in some countries such a measure might be justified. DR. HEAZLEY said that in such cases there was much to be said for carrying morphine, but PROFESSOR MAYRS questioned whether sufficient guard would be kept over the drug when ambulances were garaged. The Council decided to reply that in their opinion carrying morphine, if found necessary in the country concerned, should be kept within strict limits. MR. BOYD observed that if morphine was allowed to ambulances and first aid stations, factories and other places would demand the same facilities.

## D.D.A. Additions

THE SECRETARY reported that an Order (S.R. & O., Northern Ireland, 1950, No. 92) had been made under the Dangerous Drugs Act scheduling alphaprodine, aldone, betaprodine, hydroxypethidine, i amidone, ketobemidone, methadol, methyl acetate and phenadoxone. In reply to a question he said that the Council's resolution on the subject of antihistamine drugs had been held up as difficulty was experienced in defining them.

Certificates of apprenticeship were granted to James J. Crawford, Coleraine; Elizabeth Murphy, Toomebridge; James Murtagh, Lurgan; and Anna Sullivan.

A letter from the Associates' section of the Ulster Chemists' Association on the subject of the Society's examinations was read which put forward suggestions that the examiners should be allowed a longer period for marking the papers, that the period of the examinations should be extended to one month, or that the theoretical and practical examinations should be held in different weeks, and that the examinations should be held early in May and December instead of June and November. The Education Committee's recommendation was that the Council could not accede to the proposals and that the section should be informed of the reasons. These were as follows: It would be possible to get the examiners to remain for a longer period, and there was a problem of getting the accommodation at the College of Technology. THE SECRETARY added that the date of the examinations could only be moved forward by shortening the courses by up to six weeks and it might be considered that the course was already short enough. MR. ABERNETHY said he thought some of the suggestions might be taken up to ease the strain on the students sitting for the examinations. After MR. BOYD had suggested that the points raised should be borne in mind for the future it was decided to accept the Committee's recommendations.

The following were elected to constitute the *Statutory Council* for the next five years: Messrs. Walter C. Tate, H. P. Crossin, H. H. Cowzer, J.P., R. Gibbs, O.B.E., and H. G. Campbell.

Authority was given for the sealing of the certificates of twenty-two candidates who were successful in the Final Qualifying examination held in June.

# EXAMINATION RESULTS, GREAT BRITAIN

The following candidates satisfied the examiners in the Chemist and Druggist qualifying examination of the Pharmaceutical Society in July:—

## England and Wales

er, Royston W.  
nson, Cecil  
er, Jean A.  
ett, Sheila  
lett, John L. D.  
man, Colin S.  
iss, Betty, E.  
nett, Winifred M.  
on, Cyril B.  
on, Francis V.  
h, Kenneth  
, Derek  
, Derek K.  
ey, Frank A.  
g, Henry J.  
wn, Glyn R.  
ess, Fred  
, James E.  
Herbert E.  
ington, Peter S.  
k, Arthur E.  
s, Jean E.  
ard, Kenneth H. R.  
per, Pamela M.  
wford, Jean W.  
iels, David D.  
y, Constance J.  
ey, Clifford J.  
, Alan F.  
wood, Edward E.  
ey, Donald W. E.  
as, Ieuan A.  
as, Jean C.  
y, Hylton K. C.  
, P. J.  
cher, Barbara D.  
en, Kathleen M.  
edman, Renee L.  
(Mrs.)  
er, Cyril W.  
ge, Wilfred S.  
ingham, Jack L.  
son, Peter A. P.  
frey, David  
hammer, Sophie S.  
ld, Edwin S.  
gory, Joan M.  
ford, Peter G.  
nderson, Pat (Mrs.)  
, James  
gins, Carol G. (Mrs.)  
t, William G.  
ghes, Helen M.  
ford, Richard  
le, Beatrice E.  
es, Alun P.  
es, Ronald M.  
ridge, Kenneth A.  
son, Terence  
y, Merton  
vis, Frederick W.  
an, David

Love, Jean  
McDermott, George E.  
Mattock, Joan A.  
Mellor, Gordon  
Milner, Neville P. H.  
Morrell, George M.  
Mortimer, Hugh M.  
Mould, Alan J.  
Mountain, John G.  
Nixon, Donald L.  
Oakley, Frank D.  
O'Neill, Patrick G.  
O'Neill, William  
Othen, Eileen M.  
Owen, Sheila R.  
Parfitt, Maureen E.  
Parish, Sheila D. M.  
Penn, Barbara D.  
Phethean, Kenneth N.  
Phillips, William B.  
Poisson, Georges V. W.  
Raven, Ronald R.  
Reddell, Helena E.  
Risby, Alan N.  
Robbins, Margaret L.  
Robinson, Gwendolyn J.  
Robinson, Mary H.  
Robotham, Geoffrey R.  
Samples, Kenneth O.  
Schofield, Brian B.  
Senson, William  
Sheppard, Alan C.  
Sheppard, Janet  
Shilvock, Mary  
Sinclair, Bernard G.  
Skilletter, Joan R.  
Smalldon, Patrick T. J.  
Smith, Arthur T.  
Smith, John A.  
Stead, Raymond  
Still, Christopher J.  
Tapping, Annette  
Tasker, Muriel R.  
Thomas, Jeannette A.  
Thomas, John  
Tidball, Geoffrey J. N.  
Tierney, Margaret E.  
Timmons, Anthony  
Tozer, Albert F.  
Turner, Mary B.  
Walsh, Benjamin  
Wanless, Peter M.  
Weatherill, Anthony T.  
Webb, Eileen N.  
White, Peter A.  
Whitehead, Eric  
Wild, Arthur J.  
Wilkinson, John B.  
Williams, Anne R.  
Wingrave, Bernard A.  
Woolnough,  
Gwendolen D.

## Scotland

Adlington, William L.  
Agley, Arthur L.  
Anderson, Herbert W.  
Anderson, Mary A. S.  
Angus, Ian D. M.  
Archibald, Alexander D.  
Armstrong, Trevor  
Backham, Robert K.  
Baxter, William R.  
Bell, Terence J.  
Benjamin, Irving S.  
Bowes, Kenneth L.  
Bradley, Thomas J.  
Bretherton, Margaret E.  
Bridgman, Tony D.  
Brodie, Robert A.  
Brown, Gladys J.  
Burdon, Alfred D.  
Caie, Jean M.  
Chapman, Charles E.  
Christie, Peter  
Clacher, Jessie C.  
Clark, John D.  
Cole, Michael E.  
Cooper, Donald  
Cox, Richard E.  
Cox, Stanley  
Craig, Donald W.  
Cross, Ronald  
Cruickshanks,  
Marjorie E.  
Cunningham, Kenneth V  
Dakers, Thomas E.  
Davies, David W.  
Dawson, Frank  
Docherty, George  
Evans, John B.  
Forbes, John G.  
Frecker, Joyce  
Frier, Gavin W. R.  
Graham, Dorothy M.  
Graham, Kenneth  
Griffiths, Jean M.  
Hallett, Iris K.  
Hannam, Hilda M.  
Happs, Derek  
Harrison, Lawrence  
Henry, Muriel M. R.  
Hogg, Richard M.  
Hope, June  
Houseman, Cecily D.  
Hunter, Oliver B.  
Hutchinson, Basil H.  
Jameson, George D.  
Jones, Austin W.  
Jones, Jane M.  
Jowett, Pamela H.  
Keig, Kenneth G.  
Kemp, John  
Kinchin, Joseph S.  
Lee, Donald A.

Littler, Henry  
Lyne, Barbara M.  
McDermott, D.  
McGowan, John D.  
McGrail, Michael A.  
McIvor, Kenneth  
McKeag, Joan  
McMahon, Joseph J.  
Marr, John A.  
Mills, Denis  
Mitchell, Ian S.  
Moody, Arthur E.  
Moreton, Allan R.  
Morland, Alec I.  
Muir, Mary D.  
Murray, John D.  
Murray, John W. A.  
Muter, Sheila  
Mutch, William B.  
Myers, John E.  
Norman, Edward B.  
Percy, Neil  
Peter, Franz, A. K.  
Pirie, David R. I.  
Raiton, Rosemary M.  
Rayner, Kathleen A.  
Roe, Thomas J.  
Schonenberger, Rene  
Scott, Walter W.  
Shakespeare, Colin  
Sharkey, Andrew  
Silverman, John J.  
Sinclair, John  
Squire, John G.  
Soutter, Denis E.  
Sowood, Sydney N.  
Stock, Frank R.  
Strachan, Forbes B.  
Stuttard, Edna  
Sutherland, Albert  
Teasdale, Harold J.  
Thain, Charles  
Thompson, Charles S.  
Thompson, Edith  
Tiernan, Martin  
Tinsley, James W.  
Turnball, George A.  
Vinestock, Joyce  
Wain, Dennis L.  
Walker, Ian A.  
Walls, Margaret  
Warrington, Pamela J.  
Weston, Ralph  
Wherly, Laurence  
Williams, David T.  
Williams, Gwynfryn  
Wilson, Agnes I.  
Wilson, Jessie M.  
Wood, Jocelyn M.  
Wright, Betty, Shipley  
Wright, Betty, Bradford

**The Balance of Payments.** — A White Paper (Cmd. 7928) on the Balance of Payments was published recently.

## MEDICAL EXHIBITIONS AT LIVERPOOL

IN connection with the 118th annual meeting of the British Medical Exhibition, held at Liverpool and Southport, July 17-21, two exhibitions—or strictly a "museum" and an exhibition—were held in Liverpool.

### Pharmaceutical Society's Exhibit

At the department of pathology, University of Liverpool, the medical exhibits, illustrating aspects of surgery, were supplemented by an exhibition arranged by the Pharmaceutical Society. The exhibits were four in number. All attracted substantial interest. On a bench labelled "Ophthalmic Preparations," eye ointments, eye drops and contact-lens solutions were shown being made under an aseptic screen. On an adjacent bench was a model of an aseptic room in Perspex, complete with work bench, air filtration ducting, and sink. A model Perspex screen, holding a miniature dispensing balance, was on the bench, and a Lilliputian pharmacist entered the room through a porch. Sterilising apparatus, consisting of autoclave and hot-air oven, outside the room, were full-size and used for demonstrations.

At an exhibit devoted to physical methods in pharmacy, freeze-drying apparatus was in continuous use demonstrating the many pharmaceutical applications of the process, and it aroused much attention. Viscosity and thixotropic properties, phenomena experienced in many pharmaceutical preparations, were demonstrated and determined. Apparatus for determination of the water content of a penicillin preparation, and a means of calculating the disintegration time of fibrin foam and gelatin sponge, were to be seen. The fourth exhibit, a historical display, included English Lambeth drug jars, old mortars and pestles, a copy of the first patent for the manufacture of Epsom salts, old prescriptions, etc.

At St. George's Hall, Liverpool, were about sixty trade stands, nearly all with fluorescent or tubular lighting. PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD., featured a film strip dealing with the pharmacology and clinical applications of some of their products. IMPERIAL CHEMICAL (PHARMACEUTICALS), LTD., showed two new products, a sterile aqueous suspension of procaine penicillin G, and a new sulphonamide speciality, Avlosulphon. GLAXO LABORATORIES, LTD., presented various

new products developed in their research laboratories. One was Cytamen, the British concentrate of vitamin B<sub>12</sub> to be derived from sources other than liver, a potent standardised preparation for treatment of macrocytic anaemias. Special attention was devoted to Casinal, the calcium salt of casein, presented as a fat-free, odourless powder, and to the company's recently introduced product Seclopen, a combination of procaine penicillin G with sodium penicillin. "Evans of Liverpool" was the keynote of the large stand occupied by EVANS MEDICAL SUPPLIES, LTD. A feature of the stand was an artist's drawing in full colour showing what Speke will look like when the company's development plan is finished. New products exhibited on the stand were Bitevan (vitamin B<sub>12</sub> concentrate, Evans); Rondase (hyaluronidase, Evans); Land (cytochrome C, Evans) and the Distaquac preparations manufactured by the Dillers Co. (Biochemicals), Ltd.

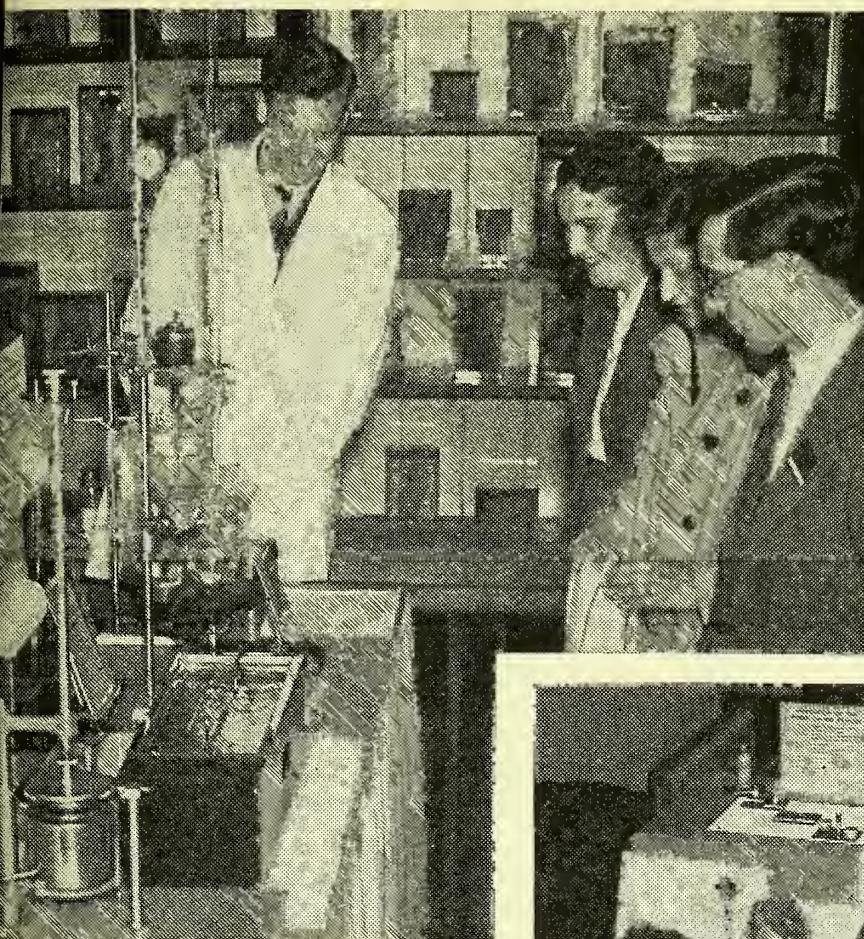
Other manufacturers with stands at the show included BAYER PRODUCTS, LTD.; ROCHE PRODUCTS, LTD.; PARKE, DAVIS & CO., LTD.; SANDOZ PRODUCTS, LTD.; J. C. F. LTD.; RECKITT & COLMAN, LTD.; NESTLE CO., LTD.; THE DISTILLERS (BIOCHEMICALS), LTD.; ORTHO PHARMACEUTICAL, LTD.; ORGANON LABORATORIES, LTD.; LEDERLE LABORATORIES DIVISION; CYANAMID PRODUCTS, LTD.; WILLIAM WARNER & CO., LTD.; the CROOKES LABORATORIES, LTD.; THE BRITISH DRUG HOUSES, LTD.; WARD, BLENKINSOP & CO., LTD.; CIBA LABORATORIES, LTD.; BRITISCH SCHERING, LTD.; ELI LILLY & CO., LTD.; ALLEN & HANBURYS, LTD.; MENLEY JAMES, LTD.; and BOOTS PURE DRUG CO., LTD.

### "Almost an Education"

The exhibition was opened by Sir Henry Cohen (president of the Association) on July 18. He said the exhibition was always one of the most popular aspects of the annual meeting. The exhibits provided almost an education in themselves for medical men who walked around.

On Thursday, July 20, the directors of Evans Medical Supplies, Ltd., invited doctors to a scientific conversazione at Evans Biological Institute, Runcorn.

**Produce from the Empire.**—The Empire Economic Union, 145 Abbey House, Victoria Street, London, S.W.1, has published a memorandum on colonial production and potentialities for production.



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CLIV JULY 29, 1950 No. 3675

## Economies in Hospitals

HOSPITAL pharmacists have some cause for congratulation in the fillip they have had—at least indirectly—from the recommendations contained in a memorandum and letter from the Ministry of Health to hospital authorities (C. & D., 22, p. 98, and this issue, p. 130). The missives deal with economy in the use of medical supplies and dressings, and imply official backing in what has, for many hospital pharmacists, a long and sometimes adventurous fight for the most efficient use of the commodities which they have naturally a special interest. To draw the attention of doctors and nursing staffs to the need for reasonable economy in methylated spirits and beer alone (in a busy ward or theatre these items are in some danger of becoming regarded as available "on tap"), of itself, if acted upon, smooth the way of the conscientious pharmacist and result in a notable saving of public money.

The Minister has, moreover, suggested that pharmacists might collaborate in a similar report to hospital committees and boards on the progress of the measures of economy adopted. It is apparent, therefore, that hospital pharmacists should take the initiative, along with representatives of other sections of the hospital, in devising methods of effecting economies.

That pharmacists in hospitals are also required to draw up lists of pharmaceutical or approved names for proprietary drugs seems at this stage less called for. Such a list already occupies nine pages in the National Formulary. The Ministry's

request is therefore tantamount to an admission of previous failure. The list, however, is not without defects, which hospital pharmacists will have the opportunity of rectifying. Many of the proprietaries mentioned are, for example, the only articles of their kind available. Others cost the Exchequer no more than the "drug or preparation which is substantially identical or of reputed analogous therapeutic effect." It is noteworthy that Dr. John A. Charles (chief medical officer to the Ministry of Health), in his letter to hospital doctors, makes a point of recommending them to consult the pharmacist as to the most economical of the drugs they wish to use. To this one would only wish to add "whether proprietary or 'standard.'"

## "Planning Permission": Changes Effected by a New Order

To a person who wishes to build, or to alter or enlarge his property, or who desires to put premises to some different use, two questions arise. The first is whether application must be made to the local authority for permission to do the work or change the use; and secondly, whether there is any liability to pay what is known as "development charge."

A new Order was recently made by the Minister of Town and Country Planning that affects the need to obtain planning permission. The Order appears to make no change in the liability to payment of development charge. So far as planning permission is concerned, the present position is here under review.

No permission is required if the work proposed is for the maintenance, improvement or other alteration of the interior of the premises; one may now paint the exterior without obtaining permission. Within the curtilage (the "curtilage" includes not only the site on which the building is erected but the surrounding land, such as a yard or garden, right up to the boundaries on each side of the property), of a house used partly for a trade or business but whose upper part is used as a dwelling, buildings such as a shed in the yard may be used for the purpose of the dwelling-house part of the premises. Permission is

required, however, for using the building or the land for any purpose in connection with the trade carried on at the premises. Thus it would not be permitted to use the shed or outhouse to store stock-in-trade. For that purpose permission is required.

The new Order has relaxed the rules requiring permission by allowing enlargement or improvement or other alteration to the dwelling house without permission, provided certain conditions are fulfilled. If the premises consist of a lock-up shop with dwelling accommodation, only the dwelling house portion of the premises may be thus enlarged, improved or altered without planning permission. Planning permission is required for enlarging or improving or altering shop premises. Under the relaxation granted by the new provision a dwelling house may be enlarged even by erecting a garage, provided the garage is not used to house a van used for business purposes.

The conditions to be observed to avoid the need for obtaining permission are:

1. That the work undertaken does not have the effect of increasing the cubic content of the premises by more than 1,700 cu. ft. or one-tenth of the existing cubic content of the building, whichever is the greater, and that in any event the maximum increase is 4,000 cu. ft. (The cubic content is ascertained by external measurement, and it should be observed that extension of the cubic capacity may be either vertical or horizontal. Thus a four-storied house might be replaced by a three-storied house by increasing the length or the width of the house or vice versa).

2. That the height of the building does not exceed the original height.

3. That no part of the building projects beyond the foremost part of the front of the premises.

4. That, if any means of access from the premises to the road is to be constructed, laid out or widened, consent is obtained. To erect, construct, maintain, improve or alter any building within the curtilage of one's premises requires no permission so long as the building is required for purposes incidental to the enjoyment of the dwelling-house portion of the premises. If, however, a building is to be

erected for use as a dwelling or as garage, permission is required. In the case in which permission is not required, the conditions to be observed are that the height of the building must not exceed 12 ft., if it has a ridged roof, or in another case 10 ft. If operations in connection with the means of access from the building to the road are to be undertaken consent is required.

5. No permission is necessary to erect or construct gates, fences or walls not exceeding 4 ft. in height where they abut on a road, or 7 ft. in height in any other case; nor is permission required for work of maintenance, improvement or other alteration thereto. But in any case the maximum height permitted in the particular case for fences and walls may not be exceeded. Application ought to be made to the local authority for determining what such maximum height is. Here again permission is required if the alterations make necessary any operations in the means of access from the premises to the road.

6. While the change of use of any type of shop to a shop of any other type does not attract a development charge, planning permission still seems necessary (though no permission is necessary to change the use of premises from fried fish, tripe, pet animals or birds, or cats' meat shop, to any other, or from a restaurant to any other type).

## FIFTY YEARS AGO

### Where Elegant Pharmacy Arose

(From the C. & D. July 28, 1900).

WHATEVER views may be held as to the value of homœopathic treatment or the truth of the formula *similia similitudinibus curantur*, no one can dispute that homœopathic pharmacy is elegant. Indeed, the globules and pilules of Hahnemann in their dainty little tubes, carefully excluded from the deleterious light-rays by neat ouzou cartons, were the forerunners of the taloids and parvules, the granules and pellets etc., with which we are so familiar today. And, if for this reason alone, the memory of the old German physician should be held in respect by modern pharmacists, the founder of elegant pharmacy, even if they deny his claims to be the first exponent of scientific therapeutics.—J. T. H.

# PHARMACY OF PARA-AMINOSALICYLIC ACID

By H. J. Spriggs, B.Sc., Ph.C., A.R.I.C.

PARA-AMINOSALICYLIC acid has been made use of increasingly during the past three years in the treatment of various forms of tuberculosis. Recently it has been shown that the combined administration of the drug with streptomycin greatly delays the emergence of streptomycin-resistant strains of tubercle bacilli.

The drug is used almost exclusively in the form of its sodium salt. Whereas the free acid is almost insoluble in water, sodium para-aminosalicylate is freely soluble, forming aqueous solutions that are reasonably stable. Because both the acid and sodium salt are commonly referred to as P.A.S., there may be some confusion as to what is intended when a prescription calls for "P.A.S." It may be taken for granted that sodium para-aminosalicylate is intended in the same dose as written. The dosage scheme for the drug has been based on the use of its sodium salt, and calculation for equivalents is unnecessary. The standard form of sodium para-aminosalicylate is the dihydrate ( $C_6H_3(OH)_2CO_2Na_2H_2O$ ); for convenience, the following equivalents are given:—  
Sodium para-aminosalicylate (M.W. 211)  
Sodium para-aminosalicylate anhydrous (M.W. 175).  
para-Aminosalicylic acid (M.W. 153).

### Flavoured Solution

The most commonly accepted method of administration of the drug is as a simple solution in water, which may be flavoured as desired. Much study has been given to convenient methods of providing the drug in divided doses. These include individual dose packets to be dissolved in water, individual dose packets of sugar-coated granules, sugar-coated and enteric-coated tablets, and cachets. The cachets, each containing 1.5 gm. of the drug, are perhaps the simplest method of administration, being tasteless and easily swallowed with a draught of water after soaking them for a few seconds. Two only are required for a dose. Sodium para-aminosalicylate is readily soluble in cold water. A suitable method of dispensing it is to dissolve 1 gm. (46 grains) in half a fluid ounce of water. In the absence of directions by the prescriber, it may be well to direct "Take one tablespoonful every 2½ hours."

Mixtures should be freshly prepared, and only a sufficient quantity for a week's treatment should be dispensed.

Many patients prefer to take the mixture without the addition of flavouring. Various flavouring agents have been used, and where the taste of the drug is not tolerated, the addition of chloroform water is usually sufficient to overcome the difficulty. No flavouring agent has met with general acceptance, and alternatives that are frequently used are liquid extract of liquorice, peppermint water, fruit syrups and emulsion of cassia. It is worth changing the flavour periodically to avoid monotony, as patients have to take the drug for many months. P.A.S. should be taken after food, even if the food consists only of a few biscuits. The dosage for children can be calculated according to any of the usual formulas; alternatively, a daily dosage of 0.25 gm. per kilo body weight may be given (i.e., gr. 1.75 per lb. body weight daily).

In addition to the oral treatment of tuberculosis, P.A.S. is used in local treatment of various non-pulmonary forms of the disease. The drug is available in ampoules of a sterile 20 per cent. solution for the treatment of tuberculous empyema, and for local application in tuberculous ulceration. For injection into tuberculous sinuses a sterile 20 per cent. jelly in a methyl cellulose base is available and a 10 per cent. cream in base of unguentum alcoholium lanæ, B.P., is intended for use in the treatment of lupus vulgaris and tuberculosis of the skin.

### Preparing Sterile Solutions

In preparing sterile solutions of P.A.S., bacterial filtration should be the sterilisation method adopted. The official methods of heating in an autoclave or heating with a bactericide should not be employed, as aqueous solutions of the drug decompose when heated. A 20 per cent. solution decomposes to the extent of 10-15 per cent. when subjected to these methods. Sodium metabisulphite, 0.1 per cent., may be used as an antioxidant for P.A.S. solutions. When sterile solutions of P.A.S. are required for intrathecal injection, in the treatment of tuberculous meningitis, ampoules of a sterile 5 per cent. solution in pyrogen-free water are available.

Sodium para-aminosalicylate powder can be satisfactorily sterilised by first removing the water of crystallisation by heating in a hot-air oven at 100-110° C. for 1½ hours. The anhydrous material, which is appreciably hygroscopic, should then be weighed out and transferred to its final container without delay. Sterilisation is then effected by heating at 150° C for one hour. When sufficiently cool, the containers should be taken from the hot-air oven and immediately sealed to avoid contamination. The drug may be presented

as an aerosol, a usual concentration being 20 per cent. P.A.S. in an equal mixture of water and glycerin, water and propylene glycol, or water and diethylene glycol.

P.A.S. is also available in the form of its calcium salt. Recent clinical studies indicate that the calcium salt is rather more palatable than sodium P.A.S. and is better tolerated. In cases where sodium salt is contra-indicated, the calcium salt may be a convenient alternative.

[From the laboratories of H. K. Hall, Inc., Pharmaceuticals Ltd.]

## REVISION OF U.S. 1950 "PHARMACOPEIA"

THE publication of the fourteenth Revision of the United States Pharmacopoeia (the new spelling should be noted: see below), complete with its first addendum, only three years after the thirteenth appeared, is a notable development in pharmaceutical history, and at least in part reflects, as Dr. E. Fullerton Cook (chairman of the General Revision Committee) says, "the phenomenal development of new and increasingly efficient therapeutic agents during the past few years." Although numerous reasons may be inferred for the appearance of the 202 new items in the Pharmacopoeia (which contains 1,067 pages) and the dropping of 119 items that were in the previous work, the trend common to most pharmacopoeial revisions of including standards for specifics and eliminating monographs on other medicaments can be seen in the changes. A number of preparations given in the (U.S.) National Formulary VIII have been given pharmacopoeial status, e.g., pilocarpine hydrochloride (the U.S.P. XIV now contains two pilocarpine salts); iodochlorhydraxyquin (Vioform); potassium nitrate; propylene glycol (originally used as a substitute for glycerin and now used in some U.S. pharmacopoeial preparations); and the palatable vehicles, raspberry juice and syrup. Besides standards, certain new monographs are devoted to new formulas, e.g., syrups, ophthalmic ointments, compound solutions, etc. Difficulties which the pharmacopoeial committee on "scope" experienced may be indicated by the fact that suramin, official in U.S.P. XIII, was at first to be omitted from the present edition (a trypanocide, it was seldom used in the U.S.A.). Later, however, that decision was reversed, and the drug and sterile sodium suramin were put into the addendum.

The need to publish a pharmacopoeial revision so soon as a number of important

changes in therapeutics have occurred may be particularly urgent in the United States, for there the book is regarded only as a standard, and necessary for execution of the Federal and State food, drug and cosmetic legislation (C. & D., July 22, p. 117), but as a therapeutic guide and a "basis for teaching modern therapeutics."

### New Antibiotics Become Official

Antibiotics feature prominently among the new drugs official in the U.S.P. They include aureomycin hydrochloride, described as "the hydrochloride of several antibiotic substances produced by the growth of *Streptomyces aureofaciens* Duggar, or each of the same substances produced by any other means." Capsules of the drug are also official. Chloramphenicol, the first synthetic antibiotic described as occurring as "fine white, greyish-white or yellowish-white needle-like crystals or elongated plates," is included together with capsules. Streptomycin and dihydrostreptomycin (the hydrochloride or sulphate, usually, of the base produced by the hydrogenation of streptomycin) are now official. New penicillin preparations include potassium penicillin and penicillin G (potassium, sodium and procaine), buffered crystalline penicillin (using sodium citrate), penicillin for injection, and penicillin procaine for aqueous injection. Tyrothricin is also included, together with a solution of the drug, a spirit and lozenges. The influence of British research work is to be discerned in the inclusion of dimercaprol (BAL), which is also official as the injection (a 10 per cent. sterile solution in oil). Dimethyl phthalate, which first was used on a large scale as an insect-repellant during the 1939-45 war, and compound dimethyl phthalate solution (incorporating also ethohexadiol)

pyranoxy), are now official. Four ephedrine preparations—capsules of the hydrochloride and sulphate, tablets of the hydrochloride, and injection of the sulphate—are new.

### Opthalmic Preparations

Among the official ophthalmic ointments new preparations of adrenaline bitartrate (made with hydrophilic soft paraffin, ammoniated mercury, and mercury boride). Adrenaline bitartrate is also official as an ophthalmic solution.

Amorphous sulphate syrup, prepared from potassium sulphate, is a new official preparation redolent of older pharmacy. Among the vitamins added is folic acid, which is also official in capsules and tablets.

Para-aminobenzoic acid is also new. Other new official principles include dihydroxyquinoline (an antiprotozoal agent); antihistamines such as diphenhydramine and tripeleannamine (Pyribenzamine); chlorophenoxyethane (dicophane: regulation is given only for the benzyl benzene and dicophane lotion); iodoalphionic acid (a contrast medium for use in cholecystography); iodochlorhydroxyquin (sometimes used as an almost odourless substitute for iodoform, but generally employed against trichomonal vaginitis, or against trichiasis); also meperidine (pethidine); chlorazoline hydrochloride (Privine hydrochloride); and methiodal sodium (monoiodoethanesulfonic acid, sodium salt), a contrast medium for examination of the urinary tract.

New antimalarials include chloroguanine (proguanil) and pentaquine phosphate (and tablets)—an antimalarial developed during the war known as SN 13,276. Phenyltetrazol and injection (leptazol) is now official, and also pertussis vaccine (the alum precipitated type); phenylhydantoin hydrochloride (and injection and lotion), *l*-1-(*m*-hydroxyphenyl)-2-methylbenzethanol hydrochloride, often used as a local anaesthetic like adrenaline; cocaine hydrochloride (and injection), a local anaesthetic; polyethylene glycol, a condensation product of ethylene oxide and water (known commercially in America as Carbowax), an ingredient of ethylene glycol ointment; propyluracil (and tablets); blood grouping serum anti-A and anti-B, and anti-Rh serum. A novel monograph is that on absorbable gelatin sponge. Thrombin; trichloradione (capsules and tablets) (3, 5, 5-ethyl-2, 4-oxazolidinedione, Tridione) and tubocurarine chloride (and injection).

Among the "dropped" monographs are a number of old favourites, including notably drugs of vegetable origin, rhubarb, senna, ginger, hyoscyamus, nutmeg, myrrh. Others dropped include chalk, cod-liver oil emulsion, eucalyptus oil, mercurial ointments mild and strong, mercury, and potassium citrate (including the effervescent preparation). Newer preparations no longer official include penicillin calcium, penicillin dental cones and injection oil-in-wax.

### Revision Methods

The methods of revising the U.S. Pharmacopeia are described by Dr. Cook as "soundly democratic and unique." The revision committee is composed of voluntary workers elected by a national Convention, representing doctors and pharmacists appointed by Federal, State and professional organisations. The committee, in turn, calls upon all sections of medicine and pharmacy and related sciences for collaboration, which, as the chairman points out, is rapidly expanding. Problems concerning the standardisation of heparin; amino acids; digitoxin; vitamin A spectrophotometric assay; vitamin B<sub>12</sub>, penicillin and hormones in particular have been the subject of collaborative studies. After preliminary studies, the recommendations made are considered by subcommittees which prepare revised monographs. Finally, each monograph as revised is considered by the general committee on Revision, and is issued as a supplement or included in the next pharmacopœial revision.

The Fourteenth Revision becomes official in the United States on November 1, 1950, except for the following compounds or preparations, which become official a year later:—Benzyl benzoate chlorophenoxyethane lotion, butopyranoxy, chlorophenoxyethane, dimethyl phthalate, compound dimethyl phthalate solution, and ethohexadiol.

### Diphthong Abandoned

The new spelling of the title substituting "e" for the diphthong "œ," is in accordance with a decision taken by the 1940 U.S.P. Convention. "This alternative spelling," states the Preface, "has been widely used in medical literature in the United States for years." It is to be noted, however, that the corporate title ("The United States Pharmacopœial Convention, Inc.") continues unchanged.

## NEW DEVELOPMENTS IN RADIOLOGY

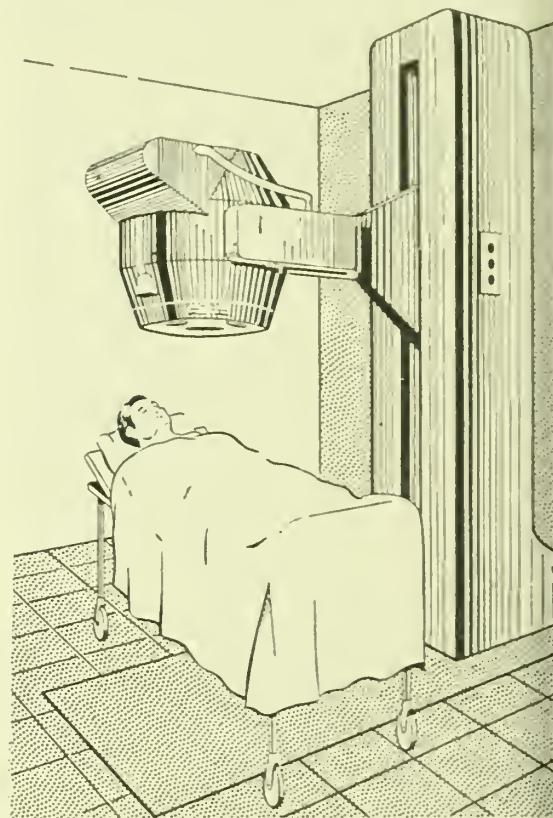
AMID massive x-ray apparatus and their console-like control panels, giving a Wellssian atmosphere to the two London halls in which from July 24 to 28 was held the technical exhibition of the International Congress of Radiology, a pharmaceutical note was struck at the stand of the Radiochemical Centre, Amersham (see *C. & D.*, 1949, I, 672), by the illustration of a pack of one of the Centre's new products—radon ointment. Though radon is itself radioactive, the ointment has proved useful in treating necrosis caused by excessive radiation therapy. It is prepared by the novel method of exposing to an atmosphere of radon the soft paraffin base, in which radon gas is readily soluble. Like the other products of the Centre (now under the Ministry of Supply), the ointment, packed in collapsible metal tubes, is sent only to institutions, etc. The activity can be adjusted.

### Irradiation With Cobalt 60

Significant of the developments being made towards replacing radium by the cheaper material cobalt 60 for therapeutic irradiation (see *C. & D.*, July 24, p. 120), was a model of a cobalt-60 beam-therapy-unit designed by the Eldorado Mining and Refinery (1944), Ltd., Ottawa, Canada (illustrated). The keynote of the apparatus is simplicity, which among other advantages minimises failures, a most necessary feature when the cobalt-60 "bomb" used is of such size (110 gm.) and specific activity that, unshielded, it would produce a tolerance dosage a quarter of a mile away. The "bomb" giving a total of 2,500 curies' activity, is kept permanently in the heavy lead shield, and the beam is turned on and off by moving pneumatically screens within the shield.

Other exhibits of pharmaceutical interest were of x-ray contrast-media and x-ray film processing-chemicals. GLAXO LABORATORIES, LTD., showed Pyelosil (diodone) for use in excretion pyelography by intravenous injection, angiography, hysterosalpingography, arthrography, renal clearance tests, etc.; Pyelectan for use in excretion urography; Myodil designed for visualisation of abnormalities affecting the spinal column, etc.; and Pheniodol Glaxo for radiography of the gall-bladder. PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD., showed Uriodone and Uriodone Forte, contrast-media containing diodone, Uropac, Viskiosol Six, etc. In a range of

processing chemicals shown by MAY & BAKER, LTD., on the same stand, Amphix, a rapid fixer for radiographs which allows x-ray films to be viewed within one minute after exposure. D.A.M. & Co., LTD., showed a new barium suspension Micropaque; HANOVIA,



Cobalt 60 beam therapy unit

ultra-violet sterilising units for installation into aseptic dispensing screens; ILLUMINEX, LTD., a range of x-ray films for medical and dental radiography; KODAK, LTD., colour transparencies made with Kodachrome and Ektachrome, etc. UNION MINIERE DU HAUT KATANGA, S.C., Brussels, Belgium (associated with CHEMICAL & INDUSTRIAL VICE CO., LTD., London), showed a range of radium needles, etc., and illustrated the largest radium-beam therapy apparatus in the world, employing a 30-gm. radium bomb. WATSON & SONS, LTD., London, showed a new cine radiography apparatus; a.b. ASTRA SODERTALJE, Sweden, showed Umbradil, a water-soluble, viscous contrast medium and Xylocaine, a local anaesthetic having a claimed potency at least twice that of procaine. BENGTSSON & CO., LTD., Wembley, Middlesex, showed Lipiodol-Lafay, Tenebryl Guerbet, Diodone Guerbet contrast media.

## GERMANY'S PHARMACEUTICAL INDUSTRY

FORMATION on the German pharmaceutical industry, compiled by British specialists after the end of the 1939-45 war and been summarised as B.I.O.S. survey titled "The Pharmaceutical Industry in Germany during the period 1939-45." The report was published on July 22.

Edited by Dr. J. B. M. Coppock (director of the British Baking Industries Research Association, and formerly with Boots the Drug Co., Ltd.) the book deals with the thirty groups of pharmaceutical preparations or processes, each chapter being written by an authority. It lists reports made by the visiting teams, and—a particularly useful feature for wholesale, retail and hospital pharmacists—gives index references to new German proprietary products. The scope is generously wide, extending to plant hormones, insecticides, sweetening agents. Methods of production of many of the preparations mentioned are outlined, research work and methods of biological and clinical testing discussed. The book is fully illustrated with structural formulae and there are five plates (which will be clearer).

Concentrating on new developments in German industry the report shows that, during the war, pharmaceutical manufacturing technique generally was inferior to that in Britain. The editor gives a warning that it would be dangerous to assume that German techniques would continue on a relatively backward scale, and urges the British industry to maintain the prestige advantage it has gained. Though the sections are historical, the work should prove an invaluable reference to those engaged in many sections of the British industry.

### Antibiotics and Anticoagulants

In the antibiotics field Germany lagged behind Britain. In their scanty penicillin research, for example, German workers never obtained a satisfactory strain of *Penicillium notatum*, nor had they made more than a few attempts to use *Penicillium syringenum*. Although anticoagulants had greater vogue on the Continent than in Britain, only one attempt to produce a synthetic anticoagulant was discovered, and that met with only partial success. Heparin was produced in Hamburg.

In the antimalarial field, to which Germans had previously contributed Plas-

moquin and Atebrin, they had practically no success during the war in finding active compounds outside the quinoline and acridine series. Suggested reasons for their lack of success included the small number of workers engaged on the problem and "staleness" resulting in a single small school of workers. Out of a large range of quinonoid substances examined for bactericidal and fungicidal properties, only one (H 1013, stated to be 8-hydroxy-naphthaquinone monoxime) has been effective. That showed particular activity against haemolytic streptococci.

Höchst workers (who before the outbreak of war elaborated Dolantin (pethidine, B.P.) examined some sixty compounds of the substituted piperidine type, and their findings are summarised in the report. Methods of preparing opium alkaloids by the six German members of the International Opium Convention are outlined. Knoll, A. G., adopted the novel method at the commencement of the morphine extraction process of extracting comminuted opium mixed with slaked lime by means of cold water in a counterflow extraction battery.

### Barbiturates

In the manufacture of barbiturates (centred at I.G., Elberfeld) the impression was obtained of a well-established process operating at a high level of efficiency with orthodox plant. It was doubtful if the I.G. method was superior to that of the "more up-to-date" British manufacturer.

As a serum substitute, polymerised vinyl pyrrolidone, known in the I.G. organisation as Kollidon, was selected as the best of some thirty substances. A monthly production of 6,000 kilos was claimed. No special progress appeared to have been made on the nature of the anti-pernicious anaemia principle, and little work on folic acid was reported. Of the five companies making insulin, I.G., Höchst, was the most important in size, efficiency and research work.

Reporting on the German catgut industry (formerly the largest of its type in the world), Mr. E. Holder states that recent research was "conspicuous by its absence." That was in part because of the loss through political action and warfare, of many specialists.

Copies of the report are obtainable from H.M. Stationery Office, price 3s. 6d. each.

## REPORT ON LEASEHOLD LAW

In a final report, published on July 3 (Cmd., 7982, H.M. Stationery Office, price 4s.), a majority of the Leasehold Committee rejected any form of leasehold enfranchisement other than in the special cases for which provision is already made; recommended extension of the Rent Restriction Acts to protect occupying ground lessees; and proposed long-term reform of the Landlord and Tenant Rent Act, 1927, with the object of giving business tenants increased security of tenure. The majority report was signed by eight of the ten members of the committee. A note was included by the chairman (Lord Justice Jenkins) in which he dissented from the majority interim report on business tenures, and another member dissented from the majority findings on the tenure and rents of business premises. The majority report concludes that leasehold enfranchisement would not be in the public interest. In the section dealing with business premises the members of the committee who signed the interim report reaffirm their belief that a *prima facie* right of renewal is the only way to deal with the immediate scarcity of business premises. The present report, whose signatories include the two members who dissented from the interim report, considers the question on the assumption that the supply of premises is generally adequate to the demand.

### No Control for New Lettings

The Committee does not hold that it is either desirable or practicable to control the rents charged for new lettings of business premises, or that an occupying tenant of business premises should be given the automatic security of tenure enjoyed by tenants of premises subject to the Rent Restriction Acts. The Committee does, however, consider it desirable that there should be greater security of tenure than under the Landlord and Tenant Act, 1927, which gives a business tenant no direct claim to the renewal of his tenancy. It recommends substitution for the 1927 Act of a measure that makes renewal the principal relief, with compensation as the secondary remedy where renewal is not granted or not desired. Under the proposed measure the tenant would be entitled to a renewal at a fair market rental if he could establish that the value of the business as a going concern would be substantially damaged by removal, and the qualifying period of

occupation would be reduced from to three years. Certain "just exceptions" additional to those proposed in the interim report, would enable the landlord to defer a claim for renewal. The county court would be retained as the tribunal to deal with claims for renewal.

### Minority Viewpoint

A minority report, signed by two members of the Committee, rejects the majority recommendations on business premises: it would make the interim proposals on leasehold enfranchisement permanent.

## SCOTTISH EXECUTIVE

A MEETING of the executive of the Scottish Department of the Pharmaceutical Society was held on July 12, Mr. C. W. Macfarlane in the chair.

THE CHAIRMAN referred with regret to the death of Mr. J. B. Mitchell, Edinburgh, a past member of Executive and one of the original members of the Pharmaceutical Standing Committee. Congratulations were extended to Messrs. Elder, Graham, Hughan, Murray and Skinner on their re-election to the Executive, and Mr. Thomas Kelso, the newly elected member. As a result of his election as a member of Council and his consequent *ex-officio* status on the Executive, Mr. Macfarlane had relinquished his position as an elected member of the Executive. It was unanimously agreed that Mr. G. M. Stewart, Glasgow, should be co-opted to fill this vacancy.

Mr. C. W. Macfarlane and Mr. A. Gilmour were unanimously re-elected *Chairman* and *Vice-chairman*, respectively.

Committees were appointed as follows (Executive chairman and vice-chairman for each):—

*General Purposes:* Messrs. Anders, Coutts, Drummond, Hughan and Murray.  
*Nomination of Examiners:* Messrs. Anderson, Culbert, Meldrum and Thomas.  
*Education:* Messrs. Michie, Park, Simpson, Skinner and Thomas.  
*Public Service:* Messrs. Anderson, Bennett, Coutts, Drummond, Elder and Skinner.

Section XXII of the proposed by-laws which dealt with the Scottish Department was discussed, and suggestions made for transmission to the Council. It was reported that arrangements were shortly to be made to hold an inaugural meeting of the Central Scottish Branch in Stirling.

MR. BENNETT (chairman, Pharmaceutical Pricing Committee) and THE RESIDENT SECRETARY reported on the present position in regard to negotiations under the National Health Service. It was intimated that the inaugural sessional address would be given some time in November by Professor Stanley Alstead (Regius Professor Materia Medica and Therapeutics in University of Glasgow on "The Medi-Knowledge of William Shakespeare."

In view of the requirements for the examinations under the proposed new syllabus, it would possibly be found necessary to enlarge the examination accommodation at 36 York Place. It was agreed that the resident secretary should prepare, for the discussion by the Executive, a report on the extra accommodation for examinations made necessary by the new syllabus embodying in his report suggestions for the best way of meeting this difficulty.

## CORRESPONDENCE

### Payment for Containers

SIR,—The solution to the problem of payment for containers could be very simple. The Ministry of Health should make all containers clearly marked "H.S." free of charge to contractors, who should institute appropriate salvage schemes through local authorities. A legal action against the misuse of such containers, if strong enough, would effectively bring down the cost, remove a grouse, and make bottle-cleansing to be effected by persons other than pharmacists.

Yardford.

J. DEWHIRST.

### N.H.S. Pricing in Scotland

SIR,—The suggestion that Scottish chemists and contractors should price their own forms under the National Health Service has been discussed several times at meetings I have attended. Opinion has generally gone against the proposal, and I have heard it ironically stated that such a procedure could not have the sanction of the Government auditors. Whilst it may be possible that the Drug Accounts Committee has received an assurance that legal objections may be overlooked, and possible also that the Department of Health would be glad of some relief, it is to be hoped that the contractors will not be duped into burdening themselves with further work which is not likely to be paid for on terms any more generous than those at which they are at present carrying out their professional duties. As pharmacists we have, for the past year or so, spent considerable time on the unpaid task of sorting our forms into bundles. The result, so far as speeding up payment in full is concerned, has been negligible. The first months' forms which I have had paid under that scheme are now a year old and all I get is a statement that I have been overpaid by 2s. 5d. As a strong opponent of any form of averaging I am convinced that there is, or can be, any

justification for basing my July payments on my April costs. The proposal to waive the 8 per cent. cut and pay so much per 100 forms for pricing leaves me cold. If the "simplified tariff" suggested can be evolved in a form acceptable to contractors, why does not the Drug Accounts Committee suggest that the pricing Bureau should use it?

Cupar.

R. S. WHITELAW.

### Holidays Abroad

SIR,—Your correspondent, Mr. S. Paske (*C. & D.*, July 22, p. 122), states "They (the Continental pharmacists) do not generally regard our present Health Service favourably, and do not envy us or want it themselves." I was recently in Lisbon and Madeira, and whilst no part of my precious holiday was spent visiting pharmacies, I did notice that the average chemist's shop was of a decidedly "ethical" type, and that it catered for the people with money only. The one exception was the "English Chemist" in Funchal, Madeira, which was full of customers, and which had a mass window display of Kruschen and Eno's Fruit Salt, labelled in Portuguese! The urgent necessity for some form of social service in these places was marked. In Madeira especially the poverty of the people is widespread. Wherever I went were dozens of children anxious to clean my shoes, to sell me wild flowers, lottery tickets, or "souvenirs." I saw one child of about ten years continually thrown into the sea from a small boat, to dive for silver coins thrown by tourists. I also noticed many old people without teeth, which, added to their ragged condition, suggested the complete indifference of their rulers to their plight. I returned to my dispensary to find a number of sick people smiling a welcome. They got their free medicines and went home to get better.

Twyford.

C. H. PATRICK.

## MEDICAL ABSTRACTS

**Dental Health in London Children.**—Observations undertaken by Mellanby and Mellanby ("British Medical Journal," 1950, 1, 1341-42) show that at the time of the fifth survey (1949) of the dental health of five-year-old children attending elementary public schools in the London County Council area, caries-free children were only 14.9 per cent. of the total, against 28.1 per cent. in 1947 and 24.2 per cent. in 1945. The position had reverted to that of 1943. The lapse may be due to periodic fluctuation or may mark the beginning of progressive deterioration.

**Aureomycin in Meningitis.**—Neter, Krauss and colleagues ("Journal of the American Medical Association," 1950, 133-37) attribute to treatment with aureomycin the recovery of two children suffering from acute purulent meningitis due to *Bacillus pyocyanus* and *B. aerogenes*. The infection had occurred following surgical exposure of the spinal cord. It had entered the meninges through a cerebrospinal fluid leak during prophylactic administration of penicillin. No immediate ill-effects were noticed from intrathecal or intraventricular administration of aureomycin (adopted in one case). The authors consider that the route should be resorted to only if all other routes of therapy fail.

**Aureomycin in Yaws.**—Ampofo and Findlay ("Nature," 1950, 165, pp. 398-9), working at Mampong-Akwabin and the School of Pharmacy, London, find that in yaws aureomycin brings about rapid healing of the lesions but in the doses so far used no serological changes have been noted. Though aureomycin is a little slower in action than penicillin it has the advantage of not requiring intramuscular injections and the authors point out that it would be simpler to carry out mass treatments with aureomycin than with penicillin. In tropical ulcer aureomycin seems to be as rapid in action orally as penicillin intramuscularly. Further observations are being undertaken to determine the most satisfactory result of aureomycin in both diseases. Lindeke and Maiden ("Journal of the American Medical Association," 1950, 142, 99-100) describe a "prompt and dramatic" improvement in a case of oculoglandular tularæmia when treated with aureomycin, and suggest that aureomycin may prove to be the drug of choice in tularæmia.

**Green Hellebore in Hypertension.**—Freis and Stanton ("American Heart Journal," 1948, 36, 723) find that a mixture of the alkaloids of *Veratrum viride* given in sufficiently small doses is a "useful therapeutic agent in hypertensive crisis, in chronic hypertension resistant to other forms of treatment, and hypertension complicated by cardiac failure." There were no toxic reactions, but the development of side effects and of changing sensitivity to the given dose were sufficiently frequent to limit the drug's usefulness in the treatment of patients with mild or moderate degrees of hypertension. Wilkins and colleagues in a paper read at a symposium on hypertension organised by the American Medical Association, state that *Veratrum viride* and *dihydroergocornine* lower the arterial pressure of certain hypersensitive patients without reducing, except initially, the cardiac output or the blood flow through the kidneys, liver or extremities. Patients become resistant to the hypotensive and patholytic actions of *dihydroergocornine*, however, after long-continued oral administration.

**Sodium Propionate in Eye Infection.**—Theodore ("Journal of the American Medical Association," 1950, 143, 22) has used with notable success a solution of sodium propionate (described as an antibiotic), in infections of the eyelids, conjunctiva and cornea. Sodium propionate is described as soluble in water up to a 40 per cent. The solutions are chemically stable even when boiled, but 0.5 per cent. of methyl *p*-hydrobenzoate or other preservative should be added. It has been used on the human eye in concentrations as high as 15 per cent. only transitory burning was noted. It is recommended to use a 5 to 10 per cent. solution. A 5 per cent. solution particularly when buffered to pH values 7 to 7.3, causes no suffering. The drug appears to be compatible with the vasoconstrictors and anaesthetics often used in oculär therapeutics. It was found particularly effective against *staphylococcus*, *Escherichia coli* and a number of fungi. In allergic conditions it gave results superior objectively and subjectively to those produced by the antihistamines.

**Ceylon Export Duties.**—Export duties have been increased in Ceylon on peacock feathers and rubber.

## SEAWEED INDUSTRY IN SCOTLAND

Scottish Seaweed Research Association issued recently a report on the progress of the Association.

Since its formation the Association has surveyed approximately one-third of the 1,000 miles of Scottish coastline for the important beds of sublittoral seaweeds. These surveys have revealed over 3,500,000 tons of that type of seaweed and though it will be some time before the survey is complete, enough is known to assess the total brown seaweed resources of Scotland at around ten million tons of wet living weight (equivalent to a potential availability of 1,000,000 tons of seaweed per annum).

### Chemicals in Seaweed

To ensure maximum use of that reserve of untapped renewable material," the content of the various chemicals it contains must be determined, states the report, and the commercial uses found for some or all of them. The Association's chemical division has completed an analysis of all the major types of seaweed collected at monthly intervals over the past four years, and it is now possible to assess accurately the quantities of the unusual chemicals found in seaweed (principally carbohydrates, alginic acid, mannitol, laminarin and fucoidin, with algal proteins and other constituents).

Methods have been completed on a laboratory scale for producing mannitol and laminarin in reasonably high yield towards the end of the summer and a plant will provide industry with samples so that their commercial value can be assessed and the economics of production determined. Concurrent with that, investigations have been carried out at the Institute of Seaweed Research, and Edinburgh and Cambridge Universities, to find outlets for the new chemicals. They find outlets in the production of synthetic resins, plasticisers and glucose.

The present seaweed industry in Scotland has made considerable strides since the war, using as raw material seaweed washed up on the beaches. Hand collection is, however, expensive. Moreover, most seaweed has had all the valuable chemicals (other than alginic acid) washed out of it, and is useless as a starting material for production of the other seaweed chemicals. The industry must ultimately

depend upon the successful development of economic methods of harvesting. In view of that, and the fact that all seaweed-utilising firms in this country are hampered by shortage of supplies (during the past ten years 33,000 tons of dry seaweed costing £630,000 have been imported), the Association's engineering division has devoted almost the whole of its time to developing mechanical methods of harvesting. Sublittoral seaweed grows only on rocky seabeds in extremely shallow water, is usually invisible from the surface and, when cut, sinks. Bad weather reduces the number of days on which harvesting can be carried out to less than 200 in the year. Despite that, one method has been successfully developed, another is about to be carried out on a commercial scale, and a third is in an advanced stage of development. The method that has been devised involves the use of specially designed grapnels, which can be operated from small motor-boats by crofters and fishermen wishing to make use of their boats in the off season. A second technique based on dredging is being developed at the Association's Oban outstation, and the experimental gear (a small-scale model) has harvested for short periods of time at a rate of six tons hourly. A third method, now undergoing development at Shandon and Dunbar, combines, as it were, a lawnmower and a vacuum cleaner.

### Output and Turnover

Alginates, Britain's major seaweed product, now sells in twenty countries as well as in the home market. British alginates make up over 20 per cent. of the total world production and find uses in a wide range of commodities, including pharmaceutical products (see *C. & D.*, 1949, I, 213). No accurate figures for the output of the five British alginic acid and agar-producing firms are available, but it is probable that those chemicals are being produced to the value of about £700,000 per annum, a considerable proportion of which represents wages paid to the collectors and to operatives employed in the four Scottish seaweed processing factories. Scotland's example in setting up the Institute has been followed by Norway and Canada. Overseas competition is therefore going to be significant in the near future and continued efforts will have to be made if Scotland is to maintain its lead.

## TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

### 28 Essex Street, W.C.2, July 26

THE principal feature of the markets is the announcement that home-trade rates for all grades of refined GLYCERIN will be advanced by £40 per ton. Producers say that it is no longer possible to maintain their prices for glycerin at a level very far below those ruling in other parts of the world. It is pointed out that the new higher prices apply to all supplies of glycerin released against permits dated August 1 or later, but deliveries against permits issued in exchange for Board of Trade cover notes dated May, June or July will be invoiced at the old price. Business in PHARMACEUTICAL and FINE CHEMICALS continues on a moderate level and the markets generally are steady. Activity in BOTANICAL DRUGS has been again confined to a few articles. New-crop Portuguese ERGOT is now available on the spot and demand is fairly brisk; offers from origin are few and it is difficult to ascertain estimates of the size of the crop. Further supplies of Chinese rough-round RHUBARB are now available and are meeting with a good request; offers are being made from China at low prices but are attracting few buyers. India is again asking higher prices for Tinnevelly SENNA LEAVES and PODS; spot supplies are negligible. Very few Alexandrian senna pods are now available in London—large quantities of manufacturing grade have been sold and only siftings are now offered. Cape ALOES continues scarce on the spot. French GENTIAN is a firmer market. MENTHOL is short on the spot and the market continues firm. CAMPHOR has been in routine demand at unchanged prices. In the markets for SPICES, firmer conditions exist for Zanzibar CLOVES, African and Jamaican GINGER, and for PIMENTO. Higher prices are asked for CARNAUBA WAX which is in short supply, and for SHELLAC.

In ESSENTIAL OILS, firm markets have developed for Chinese ANISE and CASSIA, Ceylon CITRONELLA and LEMONGRASS. English-distilled CLOVE has risen in price. There is little inquiry being received for Chinese PEPPERMINT. PALMAROSA has been quiet. Replacement stocks of Australian EUCALYPTUS are likely to cost more.

### U.S. Drug and Chemical Report New York, July 21

A MODERATELY good demand is reported for PHARMACEUTICAL and FINE CHEMICALS, and prices are little changed on the week. VITAMINS are in good request. The CRUDE DRUGS market has only reacted slightly to the Korean situation. Buyers are said to be showing some concern about drugs imported from the Far East. However, there

has been the usual seasonal decline in demand for MENTHOL. New-crop supplies from China are reported to be on the way; Brazilian supplies of new-crop menthol are expected to be smaller and later than usual. ERGOT continues in very small supply, with no offers either from Port or Russia. Prices of Sumatra BENZAL are rising. Spot supplies of TRAGACANH are low, and difficulty is expected in obtaining replacements from Iran. Firm prices are displayed in ESSENTIAL OILS market although there have been a number of small reductions in Chinese star A and Australian EUCALYPTUS. Supplies of Italian citrus oils are very short. PEPPERMINT oil market is steady, natural oil offered at slightly lower price than of late. Trade in AROMATIC CHEMICALS continues on a good scale with prices unchanged.

### Pharmaceutical Chemicals

ACETONE.—Makers' contract rates per ton are as follows:—In 40/50 gall. drums, £70; Less than 1 ton, £70; 1 ton, £69; 10 to 50 tons, £68; 50 tons and over, £67. Smaller quantities are quoted at £90 per ton in 5-gall. and £85 per ton in 10-drums.

AMIDOPYRIN.—French material (B.I.) offered at from 30s. to 32s. 6d. per lb.

BARBITONE.—Steady. Rates per lb. as follows:—1 cwt., 35s.; 28 lb., 37s.; 7 lb., 37s.; 1 lb., 38s. The SODIUM SALT is 1s. per lb. more than the base.

$\alpha$ -BROMISOVALERYLUREA.—Quotations are from 40s. 6d. to 47s. 6d. per lb.

CAFFEINE.—Steady. Makers' home-terms prices for 1-cwt. lots are (per lb.) as follows:—ALKALOID, B.P., 37s. 6d. and hydrous, 39s.; CITRATE, B.P.C., 21s. SODIUM BENZOATE, B.P., 23s. 6d. SODIUM SALICYLATE, B.P.C., 24s. 6d. CAFFEINE SODIUM IODIDE is 30s. per lb.

CALAMINE.—Steady. 1-cwt. lots are quoted at 2s. 1 $\frac{1}{2}$ d. per lb.

CHOLESTEROL.—In 1-kilo lots, 1s. 6d. is about 126s. per kilo; 75 per cent., 98s. and 50 per cent., 80s. 3d. per kilo.

CHRYSAROBIN.—Quotations are 35s. to 35s. 9d. per lb.

ETHER.—Prices of SOLVENT, B.P., TECHNICAL grades are unchanged, as follows:—1-ton, 1s. 6 $\frac{1}{2}$ d. per lb.; 10-1s. 7 $\frac{1}{2}$ d.; 5-cwt., 1s. 8 $\frac{1}{2}$ d.; smaller quantities from 1s. 9 $\frac{1}{2}$ d. to 1s. 11d. per lb. ANAESTHETIC, B.P., is unchanged, 1-ton, 2s. 5 $\frac{1}{2}$ d. per lb.; 10-cwt., 2s. 6 $\frac{1}{2}$ d.; 5-cwt., 7 $\frac{1}{2}$ d.; 1-cwt., 2s. 8d.; smaller quantities from 2s. 9 $\frac{1}{2}$ d. per lb. The foregoing prices are for ethers packed in winchesters or carboys or drums, 1 $\frac{1}{2}$ d. per lb. less.

LYCERIN, B.P.—Prices are increased August 1 by £40 per ton. New rates as follows:—

num series off act of	Under	1 cwt.	5 cwt.	1 ton	5 tons
	1 cwt.	and under 5 cwt.	and under 1 ton	and under 5 ton	and under 25 tons
cwt.	s. d.	s. d.	s. d.	s. d.	s. d.
lb.	202 6	198 0	194 0	189 6	188 0
lb.	200 6	196 0	192 0	187 6	186 0
lb.	196 6	192 0	188 0	183 6	182 0
as					
cwt.	—	179 6	175 6	171 0	169 6
cwt.	—	177 0	173 6	169 0	167 6
cwt.	—	—	173 0	168 6	167 0
cwt.	—	—	172 0	168 0	166 6

ons and upwards (minimum delivery contract of 2 tons), 14-lb. tins, 187s.; 185s.; 56-lb., 181s.; 1-cwt. drums, 6d.; 2½-cwt., 166s. 6d.; 5-cwt., 166s.; wt., 165s. 6d. Extra charges are made smaller deliveries ex contract of from 2s. Tins and cases free, glass pack- and iron drums charged extra and rnable. Drums will be credited in full if returned carriage forward in good ition within six months of date of ice; if retained beyond this period actual value only will be credited, ch will not in any case exceed two- ds of the invoice price. Terms : 2½ per monthly account. (Refined pale straw trial grade is 5s. per cwt. less than e).

EXYLRESORCINOL.—B.P.C. material is for 56-lb. lots, and 118s. per lb. for 20-lb. lots.

OMATROPINE.—Makers' prices per oz., as follows (prices per gm. in brackets); ALOID.—1 oz., 97s. 6d.; 4 oz., 92s. 6d.; oz., 87s. 6d. (4s.). HYDROCHLORIDE, ROBROMIDE and SULPHATE.—1 oz., 75s.; 16 oz., 70s.; 16 oz., 65s. (3s. 2d.). HYPOPHOSPHITES.—Makers' rates per lb. 7-lb. lots are: AMMONIUM, 9s. 3d.; IUM, 6s. 3d.; CALCIUM, 4s. 11d.; IRON, 4d.; MAGNESIUM, 7s. 9d.; MANGANESE, 5d.; POTASSIUM, 6s. 1d.; SODIUM, 7d. HYPOPHOSPHOROUS ACID.—In winters prices are around 6s. 2d. per lb.; carboys, 5s. 10d. per lb. asked.

SOPROPYL ALCOHOL.—Makers quote 3d. per gall. for small lots.

AOLIN.—In 1-cwt. bags, LIGHT is quo- at 56s. per cwt., and HEAVY at about 6d. per cwt.

ANCREATIN.—1 cwt. lots of B.P. are ed at 9s. per lb., and 28-lb. at 10s. P., 1-cwt. lots, 11s. 6d. per lb.

EPSIN.—In 28-lb. lots, B.P. is 26s. 9d. lb. and U.S.P. is 29s. per lb.

HENAZONE.—Prices quoted for British- e and imported material range from 6d. to 25s. per lb.

PHENOBARBITONE.—Home-trade prices are unchanged at from 35s. per lb. up- wards, according to quantity.

PHENYLACETIC ACID.—1-cwt. lots are now quoted at 5s. per lb.; smalls, up to 5s. 9d. per lb.

POTASSIUM BROMATE.—Makers' prices per lb. are as follows:—One cwt., 5s. 3d.; 56-lb., 5s. 9d.; 28-lb., 6s. 3d.; smaller quantities up to 6s. 9d.

POTASSIUM NITRATE.—Makers quote 1-cwt. lots of B.P. quality as follows:— Powder, 87s. 6d.; crystals, 86s.; granulated, 85s. per cwt. Commercial quality is 81s. per cwt. Smaller quantities are 5s. per cwt. more than above rates.

QUININE.—Makers' rates (per oz.) to home-trade distributors are given below: additional charges must be added for repacking, etc. ALKALOID, from 5s. to 5s. 6d.; ACETYLSALICYLATE, 6s. 3d. to 6s. 9d.; BISULPHATE, 3s. 7d. to 4s. 1d.; DIHYDROBROMIDE and DIHYDROCHLORIDE, 4s. 11d. to 5s. 5d.; FORMATE, 5s. 9d. to 6s. 3d.; GLYCEROPHOSPHATE, and PHOS- PHATE, 5s. 5d. to 5s. 11d.; HYDROBROMIDE and HYDROCHLORIDE, 4s. 6d. to 5s.; SALI- CYLATE, 4s. 8d. to 5s. 2d.; SULPHATE, 4s. to 4s. 6d.; QUININE and UREA HYDRO- CHLORIDE is quoted from 4s. 10d. to 5s. 4d.

SODIUM LAURYL SULPHATE.—B.P. material is quoted at about 8s. 6d. to 9s. per lb. for small quantities. EMULSIFYING WAX is about 5s. 3d. to 5s. 6d. per lb.

SODIUM PARA-AMINO SALICYLATE.—British-made material is quoted at from £5 to £5 10s. per kilo.

STRYCHNINE.—Makers' current rates per oz. are as follows:—

Compound	Under	25 oz.	25 oz.	100 oz.
	25 oz.	and under 100 oz.	and under 100 oz.	and under 500 oz.
Alkaloid ...	s. d.	s. d.	s. d.	s. d.
Bisulphate ...	6 2	6 0	5 10½	5 0½
Hydrochloride ...	5 4	5 2	5 7½	5 11
Hypophosphite ...	5 11	5 9	9 6	9 4½
Nitrate ...	9 8	9	5 9	5 7½
Sulphate (neutral powder No. 2) ...	5 11	4 9	4	7½
Sulphate (neutral crystal and powder) ...	5 6	5 4	5 2½	

SULPHAGUANIDINE.—1-cwt. lots are 19s. 3d. per lb.; 14-lb. lots are now 20s. 6d.

SULPHANILAMIDE.—Makers' rates per lb. are:—5-cwt. lots, 7s. 10d.; 1-cwt., 8s.; 28-lb., 8s. 3d.; 14-lb., 8s. 6d.; 7-lb., 9s. per lb.

SULPHONAL.—Makers quote 44s. to 53s. per lb., as to quantity.

THEOPHYLLINE.—Prices of ALKALOID range from 60s. to 65s. per lb., as to quantity; with ethylene diamine (AMINOPHYLLINE, B.P.), from 56s. per lb.

## Crude Drugs

**AGAR.**—Quiet. Kobé No. 1 for the home trade is offered at around 9s. per lb. on spot. No. 2 for export, 9s. 6d. per lb., quoted.

**ALOES.**—Firm. Cape is still in very short supply; reports from South Africa say that the drought has now been broken and that the supply position should improve. Nominal c.i.f. values for prime are from 124s. to 125s. per cwt. A small quantity has been offering on the spot at 130s. per cwt. Curaçao is unchanged at 225s. per cwt., spot.

**ANTIMONY.**—Prices were reduced by £10 per ton on July 17. English 99.6 per cent. is now £160, and 99 per cent., £150 per ton.

**BALSAMS.**—*Canada* on the spot is offered at from 16s. 6d. to 17s. 6d. per lb., as to grade. *Pará Copaliba* continues at from 7s. 6d. to 8s. per lb., duty paid, and 7s. 6d. in bond. *San Salvador Peru* is offered at from 7s. per lb., duty paid. *Tolu* is quoted at from 17s. 9d. to 18s. 3d. per lb., spot.

**BELLADONNA.**—Imported root is offered at from 3s. 9d. to 4s. 9d. per lb., as to test; leaves (or herb), from 4s. to 4s. 6d. per lb., spot, duty paid.

**BENZOIN.**—Sumatra block on the spot is quoted at from £17 to £18 per cwt.. Siam, from origin, 24s. 6d. to 25s. per lb., c.i.f.

**BLACK HAW.**—Supplies of tree bark are offered at 3s. 3d. per lb., duty paid.

**BUCHU.**—Short-round leaves are quoted at from 2s. 8d. to 2s. 9d. per lb. on the spot; for shipment, 2s. 4d., c.i.f.

**CAMPHOR.**—Chinese  $\frac{1}{4}$ -oz. tablets are quoted from 5s. to 5s. 3d. per lb., duty paid, spot London; for shipment, 4s. 5d., c.i.f. Chinese refined powder (B.P.) is from 3s. 10 $\frac{1}{2}$ d. to 4s. duty paid (in bond, 3s. 8d.); July-August shipment, 3s., c.i.f. B.B. grade, on spot, 3s. 6d., duty paid; July-August, 2s. 10d., c.i.f.

**CANTHARIDES.**—Chinese on the spot is 5s. 6d. per lb.; for shipment, 5s. per lb., c.i.f., quoted.

**CAPSICUMS.**—African on spot is 190s. to 250s. per cwt., as to quality and origin.

**CASCARA SAGRADA.**—American 1950 peel is from 220s. to 222s. 6d. per cwt., c.i.f., for August-September shipment; 1949, on the spot, 275s., duty paid (250s. in bond).

**CASSIA BARK.**—Firm. Whole, 85s. per cwt. in bond, nominal; broken, 82s. 6d. in bond, nominal.

**CHILLIES.**—Sierra Leone on the spot, quoted at 295s.; July-August shipment, 265s., c.i.f. Nigerian, July-August shipment, 230s., c.i.f. Mombasa, for shipment, 275s.

**CLOVES.**—Sellers of Zanzibar on spot at 1s. 11 $\frac{1}{2}$ d. per lb.; September-October shipment, 1s. 8 $\frac{1}{2}$ d. to 1s. 9d., c.i.f. Madagascar, in bond, quoted at 1s. 9d. per lb.

**COCHINEAL.**—Supplies of black are offered at 6s., and of silver grey at 5s. per lb., spot London.

**ERGOT.**—Portuguese, f.a.q., now landed is quoted at 30s. per lb.; quotations prompt shipment are from 26s. to 27s. c.i.f. Further reports indicate that Portuguese crop is small, but that supplies of Spanish ergot, collected before harvesting the rye, have been reaching Port and have been quickly sold. It is thought that in "a few weeks there will be available" in that market.

**EUPHORBIA.**—Supplies are offering India at about 58s. per cwt., c.i.f. U.S.

**GENTIAN.**—French on the spot is quoted upwards from 90s. per cwt.

**GINGER.**—African new-crop quote 315s. per cwt., spot; August-September shipment, 305s., c.i.f., nominal. Rej from Sierra Leone say that the general increased interest in ginger is being maintained and greater acreage is being devoted to planting the crop. Jamaican, No. 475s. per cwt., spot, nominal.

**GUM ACACIA.**—Kordofan cleaned sort the spot, offered at 86s. per cwt., London or Liverpool; July-August shipment, 81s. c.i.f. Bleached gum, 170s., September shipment, 150s. c.i.f. Talha is 52s. per cwt., spot; shipment, 49s., c.i.f. Ports from the Sudan say that arrivals from out-stations continue to be small and market remains firm and demand abroad active.

**IPECACUANHA.**—Colombian on spot quoted at 32s. per lb.; for shipment, 28s. 6d. to 29s., c.i.f. Nicaraguan is 30s. per lb. on the spot; for shipment, 32s. to 33s., c.i.f., quoted.

**KARAYA.**—Selected is quoted at 30s. per cwt., spot; No. 1, 340s.; No. 2, 32s.

**MENTHOL.**—Spot supplies continue small. Supplies in bond are quoted at 90s. 91s. per lb. (94s. to 95s., duty paid). reported that Hong Kong is quoting 90s. 91s. per lb. for September shipment at 83s., c.i.f. from Chinese ports. 75s., c.i.f., indicated.

**MERCURY.**—Spot quotations are £16 15s. to £17 5s. per flask, ex warehouse according to quantity.

**NUTMEGS.**—West Indian 80's quoted at from 3s., on spot; sound unassorted, 2s. 6d., spot. East Indian 80's, nominal, from 3s. 3d. per lb., c.i.f. Continent.

**ORRIS ROOT.**—Verona is quoted at 1s. 11 $\frac{1}{2}$ d. per lb.; Florentine, 105s., spot London.

**PIMENTO.**—Spot quotations are 1s. 6 $\frac{1}{2}$ d. per lb.; for shipment, 168s. c.i.f., quoted.

**QUASSIA.**—Quiet. Chips on the spot quoted at 32s. per cwt.; for shipment, 34s. c.i.f.

**QUILLAIA.**—Natural bark on the spot quoted at 160s. per cwt.; shipment, 150s., c.i.f.

**QUINCE SEED.**—A small quantity of on the spot is available at 3s. per lb.

**HUBARB.**—Chinese rough-round with an 80 per cent. pinky fracture is offering the spot at from 9s. 6d. to 10s. per lb., duty paid. Supplies now landing are quoted at 8s. 6d., duty paid (7s. in bond).

**RSAPARILLA.**—Jamaican native red on is from 2s. 4d. to 2s. 5d. per lb.; shipment, 2s. 1d. to 2s. 2d., c.i.f.

**EDS.**—The **ANISE** market is quiet and angled. Turkish is 155s. per cwt., duty spot London. **CARAWAY.**—Spot, Dutch offering at 120s. per cwt., duty paid, on.

**CELERY.**—Spot, Indian reported at 1s. 9½d. per lb. in London. New- for August shipment, now quoted at per cwt., c.i.f. London. **CORIANDER.**—ket continues firm. Morocco on spot ed at 105s. per cwt., duty paid; and per cwt. in bond. New-crop, for

ist shipment, quoted at 90s. per cwt., London. Poor-quality Indian on spot 97s. 6d. per cwt. **CUMIN.**—ket firm. Cyprus on spot is offered 85s. per cwt. New-crop for August ment is offered at 185s. per cwt., c.i.f. on. No Morocco offering on spot, crop supplies for July-August ship-

is quoted at 215s. per cwt., c.i.f. on. **DILL.**—Indian, spot London, is per cwt. **FENNEL.**—Spot, Indian, is at 95s. per cwt. **FENUGREEK.**—Mar-

nclined to be a little easier; sellers Morocco at 52s. per cwt., duty paid, and at 60s. per cwt.

**NEGA.**—Supplies on the spot are of at from 11s. 3d. to 11s. 6d. per lb.; 10s. to 10s. 3d., c.i.f.

**NNA.**—Tinnevelly prices continue to at origin. India is quoting leaves, August-September shipment, at the fol- (c.i.f.) prices per lb.:—Prime, 1s. 0½d.; No. 1, 10½d.; No. 2, 8½d.; 7½d. F.a.q., No. 1, 9d.; No. 2, 8d.; 7d.; graded No. 4, 6½d.; ungraded, 6½d., and stalky, 5½d. Pods, for per-November shipment, hand-picked, 1s. 0½d., and f.a.q., 7½d. to 8½d. Indian pods are scarce and there are ers from origin.

**ELLAC.**—F.O.T.N. pure, on the spot, 287s. 6d.; F.O. Standard 1, ; and fine orange, 320s. to 380s. per ex warehouse London.

**RAMONIUM.**—Indian, from origin, 4½d. per lb., c.i.f., indicated.

**ROPHANTHUS.**—Spot quotations for 100 per cent., are from 18s. to 3d. per lb.; *gratus*, 18s. 6d. to 19s. 6d., nominal.

**AGACANTH.**—White ribbon, selected, is at £140 to £145 per cwt.; No. 1, No. 2, £117; No. 3, £105, spot.

**RMERIC.**—Madras on the spot is quo- from 105s. to 110s. per cwt., as to y; new-crop, June-July, 95s., c.i.f.

**LERIAN.**—Belgian root on the spot is at from 190s. to 195s. per cwt. 170s.; Indian, 160s., spot.

## Essential and Expressed Oils

**ANISE.**—Spot quotations are from 8s. 6d. to 9s. per lb., but there are few offers; July-August, 8s. 9d., c.i.f., nominal.

**BIRCH TAR.**—Crude is offered at about 6s. per lb., spot London.

**BOIS DE ROSE.**—Brazilian on the spot is from 25s. to 27s. 6d. per lb.

**CADE.**—Spanish oil, B.P., on the spot, is quoted at from 2s. 9d. to 3s. 9d. per lb.

**CARAWAY.**—English-distilled is quoted at from 35s. to 37s. 6d.; imported oils are offered at from 22s. 9d. to 26s. 6d. per lb., on the spot.

**CASSIA.**—Spot quotations are nominally 18s. per lb.; July-August, 18s., nominal, c.i.f.

**CITRONELLA.**—Ceylon is quoted at from 8s. 6d. to 9s. per lb., spot; July-August shipment, 8s. 3d., c.i.f.

**CLOVE.**—Firm. English-distilled bud oil is one shilling per lb. up and is now quoted at from 15s. 6d. to 17s. per lb., as to quantity; Madagascar bud oil, 9s. 6d., duty paid, nominal.

**CORIANDER.**—English-distilled is quoted at about 250s. to 260s. per lb. Dutch is offered at from 185s. to 210s., duty paid.

**CUBEBS.**—Supplies of English-distilled offered at from 50s. to 55s. per lb. Imported is quoted at from 52s. to 55s.

**EUCALYPTUS.**—Australian, 70-75 per cent. (B.P.), is valued at 5s. 3d. to 5s. 9d. per lb., spot; 80-85 per cent., 5s. 6d. to 6s. per lb. Origin remains a firm market.

**GERANIUM.**—Spot quotations for Bour- bon are from 150s. per lb.

**JUNIPER BERRY.**—Imported oils are quo- from 18s. to 20s. per lb., duty paid; English-distilled, first quality, is offered at from 95s. to 100s. per lb.; B.P.C. oil is 25s.

**LEMON.**—Sicilian hand-pressed, 4 per cent. citral, on the spot, is quoted at from 32s. to 35s. per lb.; for shipment, 33s. to 34s., c.i.f.

**LEMONGRASS.**—Firm. Spot quotations are from 14s. per lb.; for July-August shipment, 13s. 6d., c.i.f.

**PALMAROSA.**—Spot quotations are from 46s. to 50s. per lb.; for shipment, 43s., c.i.f.

**PATCHOULI.**—Supplies on the spot are quoted at from 135s. to 140s. per lb.; for shipment, 116s., c.i.f.

**PEPPERMINT.**—Quiet. Spot quotations for Chinese (*M. arvensis*) are from 38s. to 39s. per lb.; July-August, 32s., c.i.f. *Piperita*, B.P., is quoted at from 58s. to 65s. per lb., spot.

**ROSEMARY.**—Spanish on spot is offered at 6s. 6d. to 8s. per lb., as to quantity.

**SANDALWOOD.**—Mysore oil on spot is from 72s. 6d. to 74s. per lb.

**YLANG YLANG.**—Bourbon on the spot is quoted at from 85s. to 90s. per lb.. for a first-grade oil.

## NEW BRITISH PATENTS

**Liver Concentrate.**—Merck & Co., Inc. No. 27441/1949 (5.11.48). The invention relates to a new and improved method of purifying anti-pernicious-anæmia concentrate obtained from crude commercial liver preparations and other sources. The solvent used may be amyl or ethyl phenol in a two-liquid phase extraction system. The crude liver concentrate is purified by chromatography and then subjected to a series of extractions with the phenol, water, mesityl oxide, etc.

**Preparation of 2-Mercapto-imidazole.**—Eli Lilly & Co., Ltd. No. 27982/49 (17.11.48). The method comprises condensing thiocyanic acid with an N-substituted primary amine, in which the N substituent is dialkoxymethyl or ethyl radicle linked to amine nitrogen through a carbon atom carrying at least one hydrogen atom, and isolating the resulting product. The acid and amine are heated together in approximately equivalent amounts at 80-120°C.

**Dry Products of Animal Glands.**—Gabro Aktien-Gesellschaft Appenzell, Switzerland. No. 25217/1949 (1.10.48).—In the method described, better drying is claimed of animal glands or mucosa containing ferments. The fresh glands or mucosa before drying are roughly disintegrated, e.g., by cutting into strips or small pieces, then soaked in salt solution of which the pH is adjusted to that of the raw material so that the contained fermentative complexes are precipitated or salted out. The material is then drained, finely disintegrated, and dried in air.

**Improved Pharmaceutical "Pellets."**—Strong Cobb & Co. Inc. No. 24802/1949 (30.10.48).—The principal aim of the invention is to provide pellets in which separated and possibly mutually antagonistic and inhibitory therapeutic agents may be orally administered at the same time. They are separated in the pellet by at least one protective layer. The new pellet has an inner and outer therapeutic portion with a spacing and protective layer between. Each of the portions contains an active agent to be separately released in the body under different pH conditions. The buffer agent may be calcium carbonate, magnesium hydroxide or trisilicate, or other material. Pepsin may be one of the therapeutic agents; and excipients and binders be included in the compressed central core.

## TRADE MARKS

(From the "Trade Marks Journal," July 1951.)

**For disinfectants derived from coal (5).**—"CENE"; by Coalite and Chemical Products, London, S.W.1; 681,527.

**For disinfectants and sanitary substances (5).**—"STOMER"; by Stotherts, Ltd., Atherton; 686,382.

**For all goods (5).**—"AVOMINE"; by May Baker, Ltd., Dagenham; 686,433.

**For bandages, bandaging material, medical surgical plasters and surgical dressings (5).**—"ETOVENT"; by T. J. Smith & Nephew, Ltd., E.6; 687,518.

**For face-cloths (24).**—"SANDRA"; by Robert Feldman, London, N.16; B685,539.

(From the "Trade Marks Journal," July 1951.)

**For agricultural and horticultural chemical products (1).**—"S.A.I.>"; by Scottish Agricultural Industries, Ltd., Edinburgh; 686,382.

**For all goods (5).**—"SUPON"; by Shell Chemicals Ltd., London, E.C.3; 688,518.

**For dentifrices (3).**—"GORDON-MOORE"; Gordon-Moore, London, W.14; 667,828.

**For non-medicated toilet preparations, soaps, perfumes, hair lotions and dentifrices (3).**—"EING SKY"; by Boujois, Ltd., Surrey; 686,576.

**For pharmaceutical preparations (5).**—"IBER"; "ABBOCILLIN"; by Abbott Laboratories, Chicago; 679,188.

**For pharmaceutical preparations (5).**—"SENODIN"; by E. R. S. & Sons, New York; 684,297.

**For medicines, medicated wines and medicated spirits (5).**—"LATICON"; by Laboratories Applied Biology, Ltd., Aylesbury; 681,433.

**For cone-shaped medicated preparations for coughs and colds (5).**—"KILKOF KONES"; by Kinsons Ltd., Burnley; 684,844.

**For deodorisers (5).**—"VAPRO"; by Ciga Components, Ltd., London, E.C.2; 687,418.

**For bandages, bandaging material, medical surgical plasters and surgical dressings (5).**—"ELASTOFILM"; "VENTAPLAST"; by T. J. Smith & Nephew, Ltd., Hull; B687,513-687,515.

**For laxatives (5).**—"LAXEN-BUSTO"; by Del Busto, Madrid; 688,046.

**For veterinary and sanitary substances and septicides (5).**—"SUPONA"; by Shell Chemicals Ltd., London, E.C.3; 688,441.

**For toilet paper, paper handkerchiefs, towels and paper covers for lavatory seats, all medicated (5).**—"STANEX"; by St. Andrew Ltd., London, E.17; 688,745.

## BUSINESS CHANGES

MR. S. D. LITTLEWOOD, M.P.S., and MRS. F. W. LITTLEWOOD, M.P.S., acquired the business of Mr. H. C. M.P.S., Winneth Pharmacy, Kelsall, Cheshire.

INNOXA (ENGLAND), LTD., 233 Balls Bridge Road, London, N.1, have appointed C. D. B. Moon, F.R.I.C., as works manager from September 1. Mr. Moon will be responsible for the expansion which is envisaged by the company in the cosmetic and pharmaceutical fields.

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**POWDER** 100,000 i.u. Containers of 1 grm. approx.

**HEPARINISED TUBES** 100 i.u. as a dried film.  
Boxes of 1 tube and 3 tubes.

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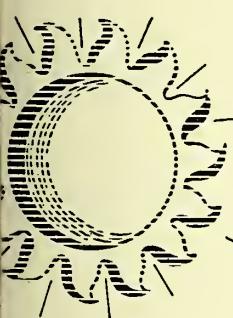
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selling  
Ribena*

RIBENA is in plentiful supply. It is a line that sells on sight and always brings repeat orders. Make the most of this opportunity to bring the boon of delicious Ribena to *everybody*. Priority restrictions are finished.



*Make a  
counter  
display of  
Ribena  
and watch  
sales soar*

**Ribena**

**BLACKCURRANT SYRUP**

H. W. CARTER & CO. LTD.,  
THE ROYAL FOREST FACTORY · COLEFORD · GLOS.

for *convenient* penicillin therapy

**'DISTAQUAINE' G**  
brand

the original British procaine penicillin G  
for aqueous suspension

**'DISTAQUAINE' FORTIFIED**  
brand

procaine penicillin G plus crystalline penicillin G  
(potassium salt) for aqueous suspension

**'DISTAQUAINE' SUSPENSION**  
brand

procaine penicillin G in ready-prepared aqueous suspension

*Distributed by:*

Allen & Hanburys Ltd., British Drug Houses Ltd., Burroughs Wellcome & Co.,  
Evans Medical Supplies Ltd., Imperial Chemical (Pharmaceuticals) Ltd.,  
Pharmaceutical Specialities (May & Baker) Ltd.

*'Distaquaine,' trade mark, is the property of the manufacturers*

*Manufactured by:*

**THE DISTILLERS COMPANY  
(BIOCHEMICALS) LIMITED**

SPEKE

LIVERPOOL

# 4 Chemists out of 5 taken by surprise!

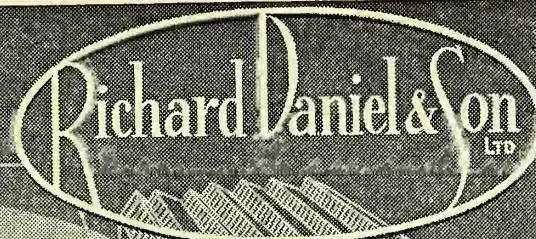
Fast-moving Silvikrin line leaves shelves empty

New Advertising Campaign increases demand for  
**SILVIKRIN HAIR TONIC LOTION WITH OIL**

Right from the start, sales of Silvikrin Hair Tonic Lotion WITH OIL went up with a rush. Confident chemists cashed in, but the over-cautious were caught out. They ordered too late and too little . . . had to keep on saying 'Sorry, out of stock'. Don't be among these 'odd men out'. Order up extra stocks of Silvikrin Hair Tonic Lotion WITH OIL before the new 80-million-advertisement campaign gets into full swing in the next few weeks.



**NOW is the time to replenish your stocks of**  
**Silvikrin** HAIR TONIC LOTION WITH OIL

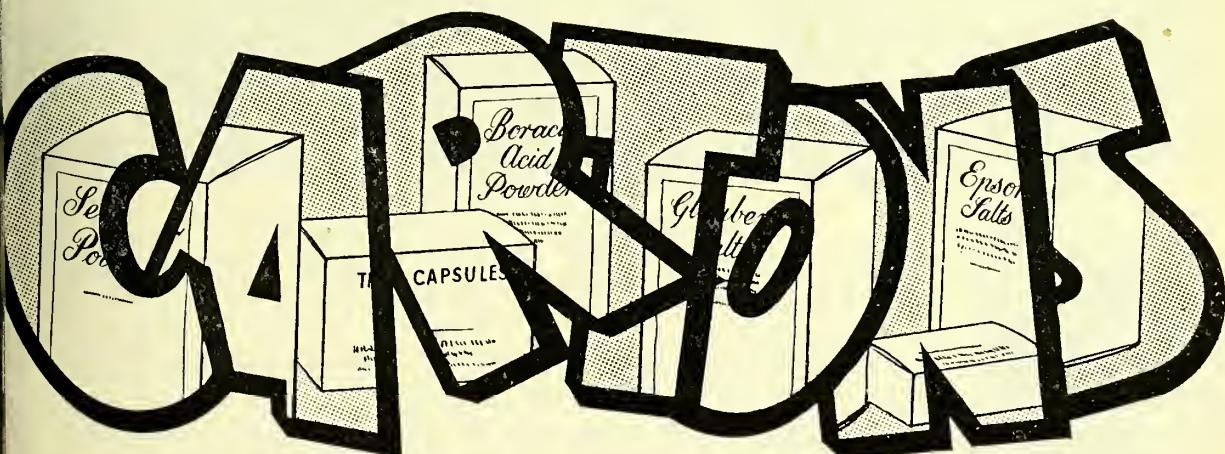


PROPRIETARIES  
SUNDRIES DRUGS  
TABLETS & PILLS

FOR  
CHEMISTS

*Manufacturing  
Chemists*

and Office & Works Mansfield Road Derby Telephone 4266 (4 lines) Branch Warehouse Grosvenor St. Ashton-under-Lyne Telephone 2816 (2 lines)



*Cartons by*  
THOMAS WAIDE & SONS LTD  
KIRKSTALL HILL LEEDS

# PATTINSON'S

Reg'd Brand

# MAGNESIA

GUARANTEED B.P. QUALITY

Mag. Carb. Levis. Mag. Carb. Pond.  
 Mag. Oxide Levis. Mag. Oxide Pond.  
 Mag. Trisilicate.  
 Mag. Hydrate. Mist. Mag. Hydrox.

Supplied through all wholesalers  
 by the sole manufacturers:

**The WASHINGTON CHEMICAL  
 CO. LTD.**

A MEMBER OF THE  
 TURNER & NEWALL ORGANISATION

**WASHINGTON  
 CO. DURHAM**

London Office:

Everite House, 59½, Southwark St., S.E.1

Manchester Office:

15, Pollard St. East, Manchester, 10

## More customers



ARE "TAKING THE  
 WATERS" AT HOME



Vichy-Celestins, the pleasant drink with medicinal properties, sales of 40,000,000 bottles and throughout the world. Demand is increasing steadily. Show and leaflets available on re-

## VICHY- CELESTINS

WORLD-FAMOUS FRENCH SPA

Bottled as it flows from the Spring

Sole Agents for the United Kingdom

Ingram & Royle Ltd., 12 Thay

London, W.1., also for

—Contrexéville-Pavillion, Evian and

## EFFECTIVE ERADICATION OF Head Lice and Nits . .



- Semprolia provides an effective and pleasant disinfection treatment, without need for combing.

- Semprolia is applied by simple massage in the scalp.

- Semprolia is economical, about one tablespoonful being required for each application.

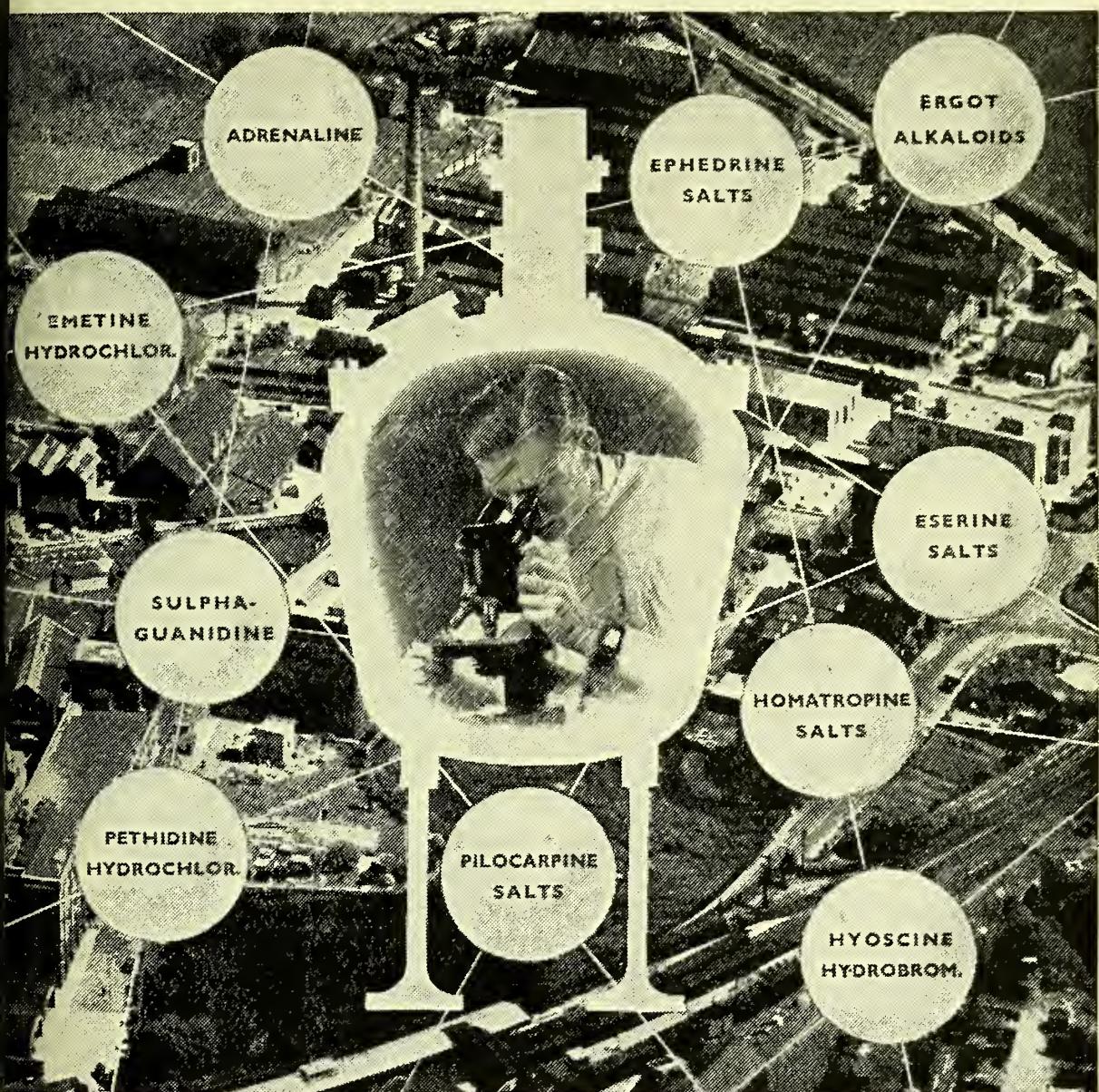
- Packs for clinic use and home treatment are available.

- List price 8/- per dozen (plus tax). Retail price 1/- (including tax).

NEW FORMULA

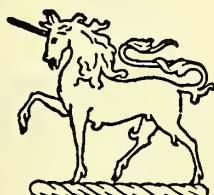
**Semprolia**  
 BRAND  
 D.D.T. HAIR EMULSION

STEMCO LTD., 128/132 ALBERT STREET, CAMDEN TOWN, N.W.



*For over **FIFTY** years*

the Wellcome Chemical Works have been producing chemicals of superlative quality. Many of these can now be supplied to other manufacturers on particularly advantageous terms. Long and extensive experience in the field of chemical manufacture places us in an exceptional position to meet the needs of individual customers. Inquiries should be made to Burroughs Wellcome & Co. at the address below.



**'B.W. & CO.'** *Fine Chemicals.*



## FOR YOUR WOMEN'S TRADE



Women form a large proportion of your customers.

For some lines they come into your pharmacy regularly. For other lines they come in only very infrequently.

It is good to have a line which brings them in regularly. It helps your sales of that line. It helps with the sales of other lines, too.

One of the regular lines is Silcot. Being a quality cotton-wool towel, which gives the maximum comfort, it brings them back time after time.

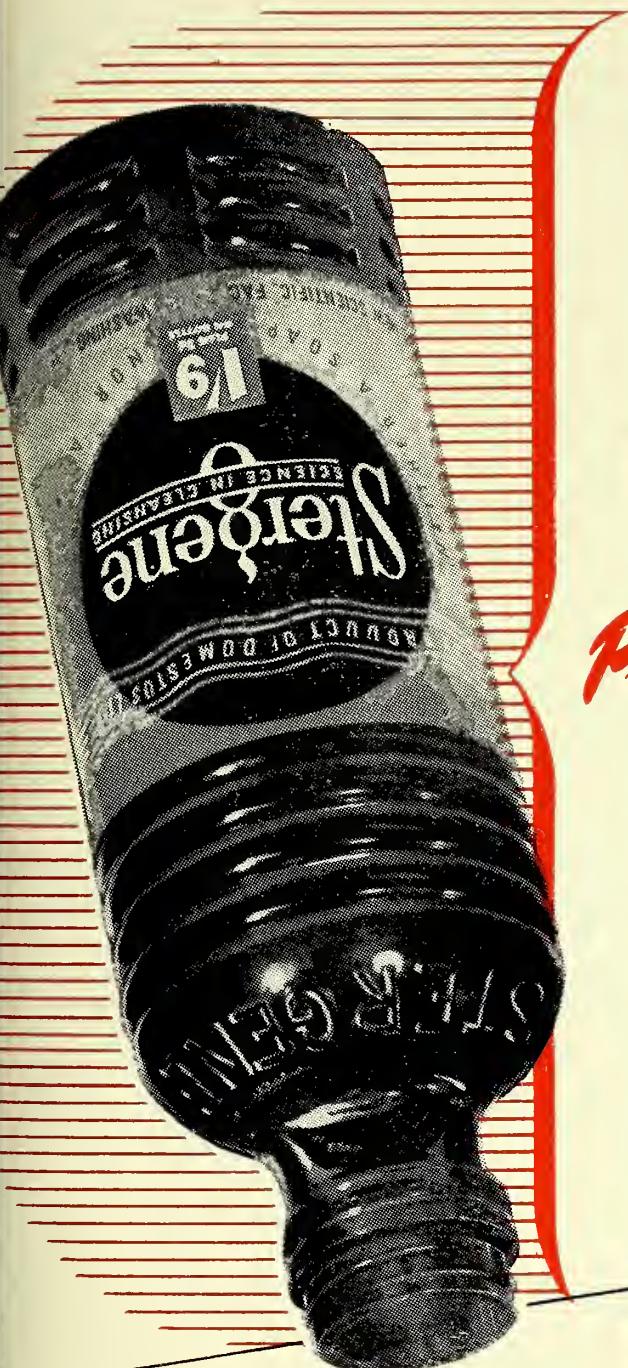
Make Silcot one of your regular lines and increase your profits.

## SILCOT *Sanitary Towels*

MACDONALD & SON LTD.

HOPE MILLS, POLLARD STREET, MANCHESTER, 4

Ardwick 1561-



# Empty Stergene Bottles

*Push Profits Up!*

Every empty Stergene bottle you collect qualifies for the special Handling Allowance recently introduced. Each empty Stergene bottle, therefore, can mean *extra* profit per bottle sold. Please ask your customers to return an empty Stergene bottle whenever they buy a new one—make the most of the Stergene bottle bonus.

AT YOUR SERVICE



Domestos Ltd.  
service ensures  
regular delivery  
of Domestos and  
regular collec-  
tion of all empty  
bottles.

**Stergene**  
SCIENCE IN CLEANSING

A PRODUCT OF DOMESTOS  
LIMITED, NEWCASTLE  
UPON TYNE, 6.

# A new selling service

## The PICTURE POST MERCHANDISING SERVICE

is now ready to help you to sell from your own shop window. This is a new development in British retail trade, and PICTURE POST is the first publication in this country to provide the shops with a Service on this scale.

The PICTURE POST MERCHANDISING SERVICE, in co-operation with your manufacturers, offers you a new way of *increasing your sales without increasing your overheads*. It brings the national advertising power of PICTURE POST into your shop to help you sell the products advertised in PICTURE POST.

Your manufacturers will send you full details of each selling campaign well in advance of the operational dates ; and will provide you with a selection from the full range of PICTURE POST selling and shopping aids, which includes **SHOW-CARDS, DISPLAY STANDS, WINDOW & COUNTER BILLS, WINDOW STICKERS, LABELS, TICKETS, TIE-ON TAGS, FOLDERS & LEAFLETS, BOTTLE & PACKET CROWNERS, CARTONS & CARRIER BAGS.**

# FOR YOU

Your manufacturers will also make sure you have sufficient stocks of their products to supply the increased demand resulting from your use of PICTURE POST DISPLAYS.

Watch PICTURE POST for news of branded products stocked by you ; watch this paper for news of PICTURE POST MERCHANDISING CAMPAIGNS ; and if your shop is one of the selected points of sale on any campaign make sure you give the PICTURE POST MERCHANDISING displays a prominent showing. *Every retailer stands to gain* from increased sales when a product stocked by him is supported, through his own manufacturers, by PICTURE POST. PICTURE POST means business, and the PICTURE POST MERCHANDISING SERVICE will be bringing it your way.

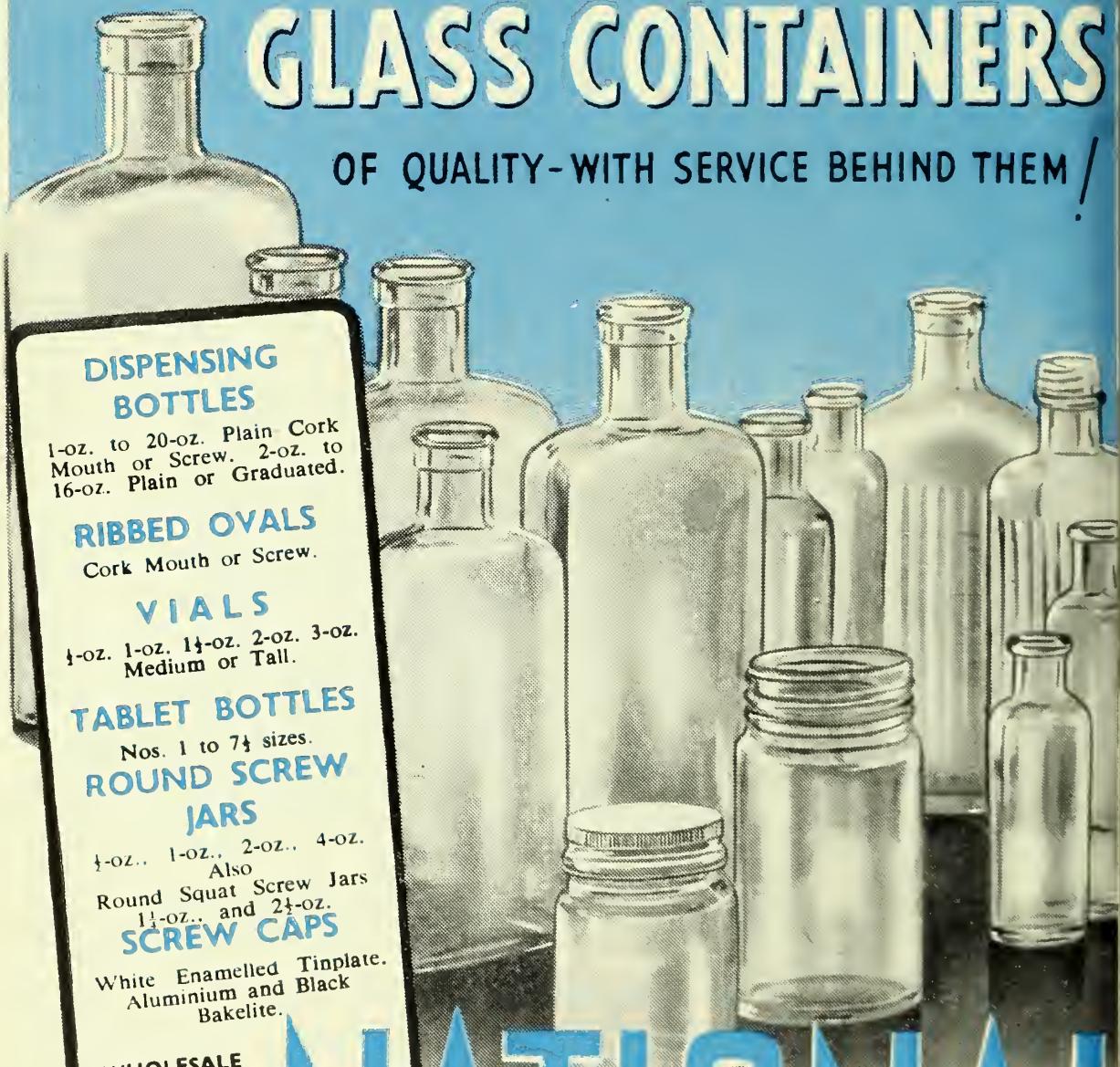


Hulton Press Ltd., 43-44 Shoe Lane, London, E.C.4. Central 7400

WHITE FLINT

# Medical and Pharmaceutical GLASS CONTAINERS

OF QUALITY-WITH SERVICE BEHIND THEM!



**DISPENSING BOTTLES**  
1-oz. to 20-oz. Plain Cork Mouth or Screw. 2-oz. to 16-oz. Plain or Graduated.

**RIBBED OVALS**  
Cork Mouth or Screw.

**VIALS**  
1-oz. 1-oz. 1½-oz. 2-oz. 3-oz.  
Medium or Tall.

**TABLET BOTTLES**  
Nos. 1 to 7½ sizes.

**ROUND SCREW JARS**  
½-oz., 1-oz., 2-oz., 4-oz.  
Also  
Round Squat Screw Jars  
1½-oz., and 2½-oz.

**SCREW CAPS**  
White Enamelled Tinplate.  
Aluminium and Black Bakelite.

WHOLESALE ONLY

**NATIONAL**

NATIONAL GLASS WORKS (YORK) LTD

TRADE MARK Fishergate, YORK  
Tel. : YORK 3021

105 Hatton Garden, LONDON, E.C.  
Tel. : HOLBORN 2146

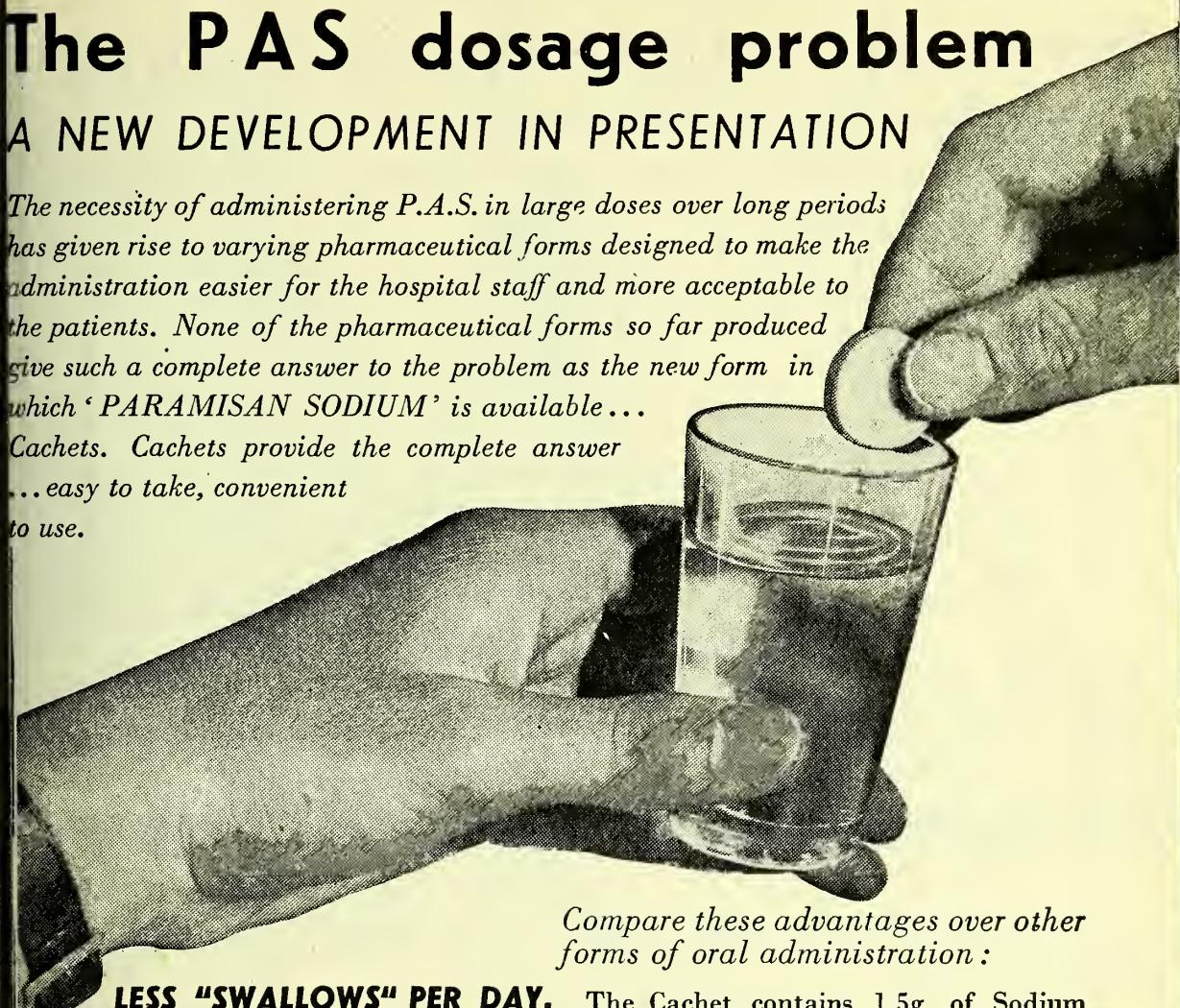


# The P.A.S dosage problem

## A NEW DEVELOPMENT IN PRESENTATION

The necessity of administering P.A.S. in large doses over long periods has given rise to varying pharmaceutical forms designed to make the administration easier for the hospital staff and more acceptable to the patients. None of the pharmaceutical forms so far produced give such a complete answer to the problem as the new form in which 'PARAMISAN SODIUM' is available...

*Cachets. Cachets provide the complete answer  
...easy to take, convenient  
to use.*



*Compare these advantages over other forms of oral administration:*

**LESS "SWALLOWS" PER DAY.** The Cachet contains 1.5g. of Sodium para-Aminosalicylate—equivalent to nearly five tablets or dragées. This is a valuable point in view of the heavy dosage scheme necessary.

**EASY ADMINISTRATION.** The Cachet, previously dipped for a second or two in water, is surprisingly easy to swallow with a draught of water. Three or four Cachets can be taken in quick succession without any difficulty.

**CERTAIN DISINTEGRATION.** The Cachet disintegrates quickly when swallowed. There is no danger of its passing through unabsorbed—a difficulty which has been encountered following the administration of large quantities of coated tablets.

**NO UNPLEASANT TASTE.** The Cachet leaves no taste in the mouth—a great advantage over solutions and over some forms of granules.

**ACCURATE DOSAGE.** The Cachet is simple to supply as an accurate dose, avoids waste and is undoubtedly the best way to buy and administer P.A.S.

**'PARAMISAN SODIUM'**  
TRADE MARK BRAND  
SODIUM para-AMINOSALICYLATE

**PACKED IN CONTAINERS of 20, 100 & 500**

**CACHETS**

Literature and prices available on application to :

HERTS PHARMACEUTICALS LIMITED, Welwyn Garden City, England

**EACH CONTAINS 1.5g**

G.M.T.53

# 'Seventy One' Bath Cubes

SIX DIFFERENT PERFUMES IN ONE PACKET

*Lavender Gardenia Lilac Eau-de-Cologne Jasmine Essence of Flowers*

'Seventy One' Bath Cubes are firmly moulded to resist ordinary handling.

They crumble easily and dissolve speedily in use. The perfumes are unusually good and each cube in a packet of six is differently scented.

The pack is designed to display attractively as well as to protect perfectly.

Your customers will appreciate their fine quality and economic price.

**RETAIL PRICE**  
Packet of six cubes  
1/9 inc. P.T.  
Single cubes 3½d. each  
inc. P.T.

**TRADE TERMS**  
17/6 per gross cubes  
PLUS PURCHASE TAX  
Quantity Discounts for—  
5 gross cubes 2½%  
12 gross cubes 5%  
**MINIMUM CARRIAGE PAID**  
**QUANTITY**  
4 dozen packets of 6

*Sole Agents London and Home Counties :—*

**THE ALLIED DRUG & CHEMICAL C°**  
ROBERT STREET, LONDON, N.W.1. *Phone : EUSTon 2524 (12 lines)*

**WE WANT**



*Sole Manufacturers : JEFFREYS,  
MILLER & CO. LTD., Leyland Mills,  
Wigan. (London Dept. 19 Brookside Rd. N.19) BECAUSE OF THE BUTTERSCOTCH FLAVOUR*

**D.C.E.  
VITAMIN B<sub>1</sub>  
YEAST  
TABLETS**

Each ounce contains a natural Vitamin B potency equivalent to that of 25 mgm. Aneurin Hydrochloride, 1·4 mgm. of Riboflavin, and 8·0 mgm. Nicotinic Acid.  
Each Tablet contains 100 I.U. (approx.) Vitamin B<sub>1</sub>.  
100 TABLETS 3s. 9d.  
50 TABLETS 2s. 3d.  
THE DISTILLERS CO., LTD.  
EDINBURGH.

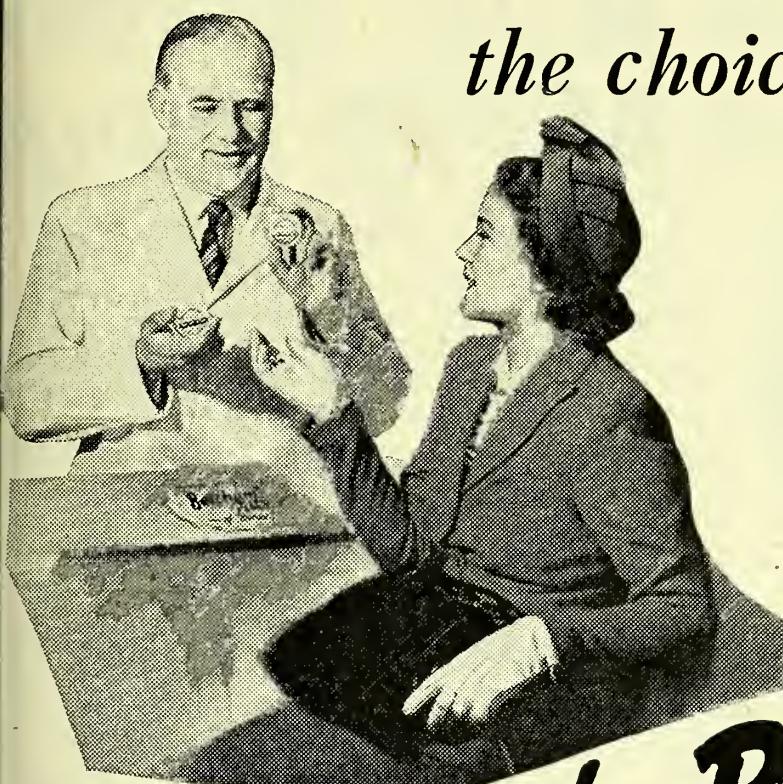
**CARTONS & BOXES**  
PRINTED OR PLAIN  
OF EVERY KIND, FOR EVERY PURPOSE  
**CARTON BOX & PRINTING CO LTD**  
BRINKSWAY, STOCKPORT  
PHONE: - 370 4720  
**SHOWCARDS**  
**DISPLAYS**  
**TRANSPARENT BOXES**

# TANNIC ACID AND DERIVATIVES

(**Bulk  
Supplies  
Only**)

**THE BRITISH DYEWOOD COMPANY LIMITED**  
19 ST. VINCENT PLACE, GLASGOW, C.1

*the choice is yours  
Madam!*

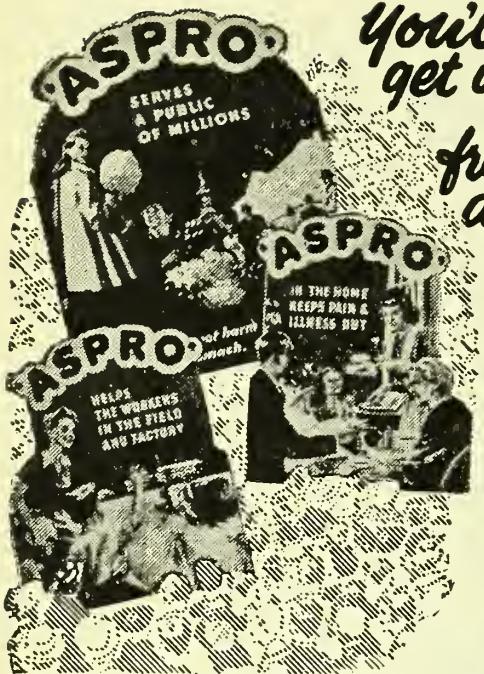


**Beecham's Pills**  
are now available  
**SMOOTH  
COATED..**  
*for those who prefer them*

Take advantage of the growing interest which is being shown in the smooth coated Beecham's Pills by keeping adequate stocks and displaying at the point of sale. Write for attractive show material to Beecham's Pills Ltd., St. Helens, Lancs.



*Worth a Guinea a Box*



# You'll get an ACTIVE RESPONSE from an 'ASPRO' DISPLAY

'ASPRO' displays are powerful pull because they act as vivid reminders to the sands of 'ASPRO' users, and 'ASPRO' is better known to the public, and means more to them than any other line of its kind. 'ASPRO' displays give you a double advantage they increase your profit margin by qualifying you for bonus and at the same time are, themselves, making steady sales for you.

## CONSTANT DEMAND SHIFTS 'ASPRO' QUICKLY Keep good marginal stocks on hand

**'ASPRO' BAGS—PRICES REDUCED.** We are passing on to you the full benefit of the lower production costs of paper bags:—**GREASEPROOF** (formerly 9/- per 1,000) **NOW 6/- per 1,000.** **2-OZ. WH** (formerly 6/6 per 1,000) **NOW 5/- per 1,000.** We suggest you take advantage of this opportunity by ordering r

**P.A.T.A.**

Made by **ASPRO LIMITED, Slough, Bucks**



**JACKSON'S**

# **FEBRIFUGE**

*the family medicine*

**1/7, 3/10, 6/4**  
inc. Purchase Tax

Also other famous specialities:—  
Camodine Ointment and Drawing Ointment

**GEORGE JACKSON & SONS LTD.,**  
Brewery St, Horbury, Manchester. 9.

**It's Delicious! It's Nutritious!**



## **MELMIL** **MALTED MILK** IN TINS OR TO

ALSO AVAILABLE HI GRADE MALT EXTRACT FOR ALL PURPOSE

AVAILABLE FOR EXPORT

Enquiries to:—

**MOUNTMELLICK PRODUCTS LTD.**  
29 SOUTH FREDERICK STREET  
DUBLIN

Phone: DUBLIN 61052 Telegrams: MELMALT, DUBLIN

*Look what women*  
from 8,000,000  
families  
are  
seeing!



And look what an effect this advertising in the Radio Times will have on your sales of this new Silvikrin Liquid Shampoo. On show seven days a week in this great national shop window it's a constant reminder to all the women in the family. And 8,000,000 families read the Radio Times every week! It cannot fail to bring customers to your shop. So prepare yourself for the demand.

*Stock and display goods advertised in the*

**RADIO TIMES**

*Member of the Audit Bureau of Circulations*

# BUTLER & CRISPE

ESTABLISHED 1777

LIMITED

PROPRIETARY MEDICINES · CHEMISTS' SUNDRIES  
SURGICAL DRESSINGS · TOILET GOODS

— WE STOCK —

## PRESCRIPTIVE PHARMACEUTICALS

FOR THE

## NATIONAL HEALTH SERVICE

BY

## ALL THE LEADING MAKERS

PROMPT DESPATCH BY - MOTOR - RAIL - POST

SEND YOUR ORDERS OR ENQUIRIES TO:—

80/84 CLERKENWELL ROAD · LONDON · E.C.I

TELEPHONE: CLERKENWELL 3060 (15 lines)

GRAMS: 'ALLUWANT' SMITH, LONDON

## BABY'S NEXT BEST FRIEND

For years there has been a big demand for this old-established, well-known remedy. Now that it is being advertised again to the public the demand will be greater than ever. Be sure you have good stocks in hand — more Nurse Harvey's is now available.



O. SCRUTON & CO., LTD. ! Display material  
BARKER LANE · YORK gladly sent on request.

## BEAR BRAND HONEY



For  
Purity  
and Quality

As direct importers from all the main Honey-producing Countries of the World, we can supply Standard Grades of the finest Honey for all Manufacturing purposes.

Supplied in 7-lb. and 56-lb. tins and in barrels

L. GARVIN & CO. LTD.  
ISLEWORTH · MIDDLESEX  
Telephone: HOUNslow 3483 (3 lines)

# Revised Prices for **Phillips** **TONIC YEAST**

Although the prices of Phillips Tonic Yeast have up to now been maintained at the pre-war level, we have been reluctantly compelled to revise the prices as and from August 1st, 1950, owing to the continuing increase in the cost of all materials.

The revised prices will be as follows :

Present Price	New Price	New Trade Price
50 Tablets - 1/3 each	1/6 each	13/6 per dozen
150 Tablets - 3/- each	3/6 each	31/6 per dozen
300 Tablets - 5/- each	5/9 each	51/9 per dozen
Granules - 1/3 each	1/6 each	13/6 per dozen
Granules - 3/- each	3/6 each	31/6 per dozen

The 10% display Bonus on direct orders remains unchanged, but the minimum amount for direct orders is increased from £2 10 0 to £3 0 0 and for combined orders of Phillips Tonic Yeast and/or Vetzyme and Kitzyme from £4 0 0 to £5 0 0.

We take this opportunity of thanking our many friends in the Retail Pharmaceutical Trade for their continued support for this popular Nationally Advertised Line.

*Rates of Trade Discounts unchanged.*

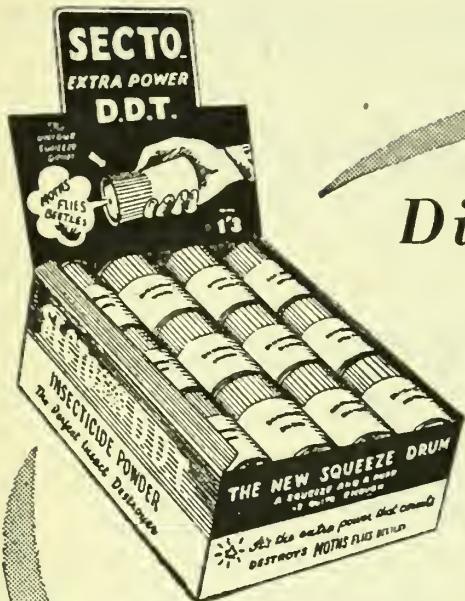
*Send P.C. for our new comprehensive price list—sent post free on request.*

**PHILLIPS YEAST PRODUCTS LTD.**

Minerva Road, Park Royal, London, N.W.10

**P.A.T.A.**





*Display to sell!*

**The fastest  
selling  
Insecticide**



**It's the  
EXTRA POWER  
that brings repeats**

**SECTO**  
EXTRA POWER.  
**D.D.T.**

CUPAL LTD  
Blackburn

**EDME**  
**"Autumn Sun"**  
EXTRACT OF MALT  
WITH COD LIVER OIL (B.P.)  
WITH FLAVOURING

**THE CHOICE OF THE FIRST CLASS CHEMIST**

EDME LIMITED, IMPERIAL HOUSE, 84-86, REGENT STREET, LONDON, W.1  
Phone: Regent 5563-4. Grams: Edme, Piccy, London. Works: Mistley, Essex

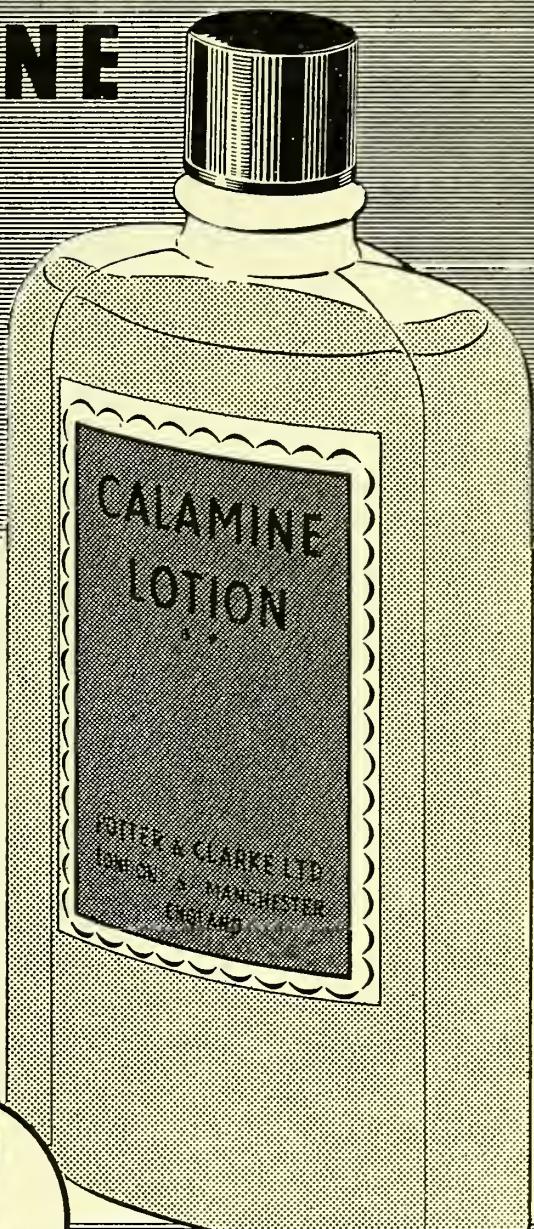
# DOUBLE YOUR SALES OF CALAMINE

*thid*  
**SUMMER**

Don't be caught short by a heat wave—stock up with Potter & Clarke's Calamine lotion now.

Put up in good looking 4-oz. bottles.

TERMS AS OUR CATALOGUE



## POTTER & CLARKE LTD

60-64 ARTILLERY LANE, LONDON, E.1

Phone: BISHOPSGATE 4761 Grams: Horehound. 'Phone, London.

77 DANTZIC STREET, MANCHESTER, 4

Phone: BLACKFRIARS 8734 Grams: Horehound, Manchester.

62 ORBISTON STREET, MOTHERWELL.

Phone: MOTHERWELL 1413 Grams: Horehound, Motherwell.

**TENS OF MILLIONS  
OF  
DOLCIN**  
Reg. Trade Mark

**TABLETS WERE SOLD  
IN 1949**

**YOU CAN ENSURE YOUR  
SHARE OF THE 1950  
SALES BY WINDOW &  
COUNTER DISPLAY TO  
LINK YOUR BUSINESS  
WITH THE  
INCREASED ADVERTISING**

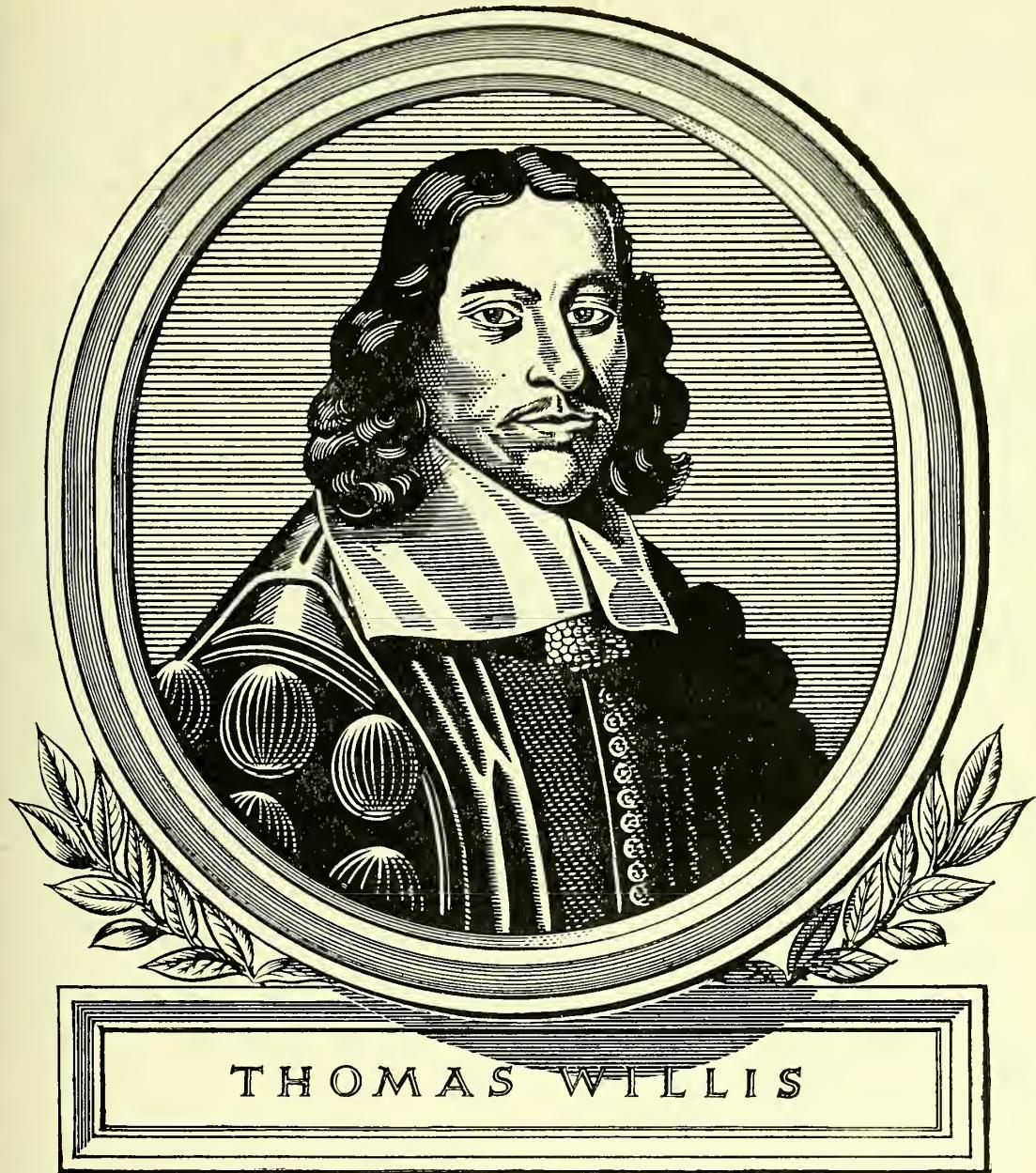
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**PRICES:**

DOLCIN 600'S (Dispensing) 31/6 per unit Plus 10,6 P.T.  
DOLCIN 500'S 324/- per dozen plus 108/- P.T. (Retail 45/- per bot.)  
DOLCIN 100'S 72/- per dozen plus 24/- P.T. (Retail 10/- per bot.)

*Please order Dolcin from your wholesaler*

*Show material for Dolcin can be obtained from:  
Sole Distributors: Tampax Ltd., 110 Jermyn Street, S.W.1*



*Foremost in diabetes* — Diabetes mellitus was first distinguished from diabetes insipidus by Thomas Willis, the 17th century anatomist and physician. His name is indelibly recorded in the annals of diabetic research. The brand name 'Wellcome,' applied to insulins, is held in similarly high esteem by all who dispense or prescribe for the disease. Whichever type of insulin you are asked to supply, a 'Wellcome' brand preparation is available.

**WELLCOME**  
BRAND

**INSULIN (Unmodified or Soluble)**  
**GLOBIN INSULIN (with Zinc)**  
**PROTAMINE ZINC INSULIN**



BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) LONDON

# ADS TO MODERN TREATMENT

**E·S·T·P**  
(Martindale)

The original colourless Coal Tar Cream with all the therapeutic advantages of crude coal tar. An invaluable anti-pruritic in all forms of eczema, pruritus, psoriasis, occupational dermatitis, etc.

## DICODID

For use in the symptomatic treatment of cough. A selective antitussive with a cough-depressant action more prompt and more prolonged than that of codeine. Well tolerated and non-constipating.

## ASPRIODINE

A definite chemical compound embodying the anti-arthritis and anti-rheumatic properties of Aspirin combined with the stimulating and corrective effect of Iodine. Prompt in action and well tolerated.

## AMECHOL

An effective parasympathetic stimulant, of especial value in vasospastic conditions of the extremities; Raynaud's disease; scleroderma; varicose, indolent and gangrenous ulcers and auricular paroxysmal tachycardia.



**SAVORY & MOORE**  
STANDARD WORKS  
LAWRENCE RD., LONDON. N.15  
PHONE: STAMFORD HILL 3456  
GRAMS: "NUSALIN" SOUTHTON LONDON

Announcing the Return of

# 'BEPLEX' ELIXIR

Again in free supply . . .

We have pleasure in announcing to the Pharmaceutical Profession that 'Boplex' Elixir is again in free supply.

'BEPLEX' Elixir contains the complete B-Complex, fortified with standard amounts of Thiamine Hydrochloride, Riboflavin and Nicotinamide.

Now derived from yeast extract the quality of 'BEPLEX' Elixir unchanged.

Price is now reduced—54/- dozen 6/- retail each, exempt from Purchase Tax, subject to the usual discounts.

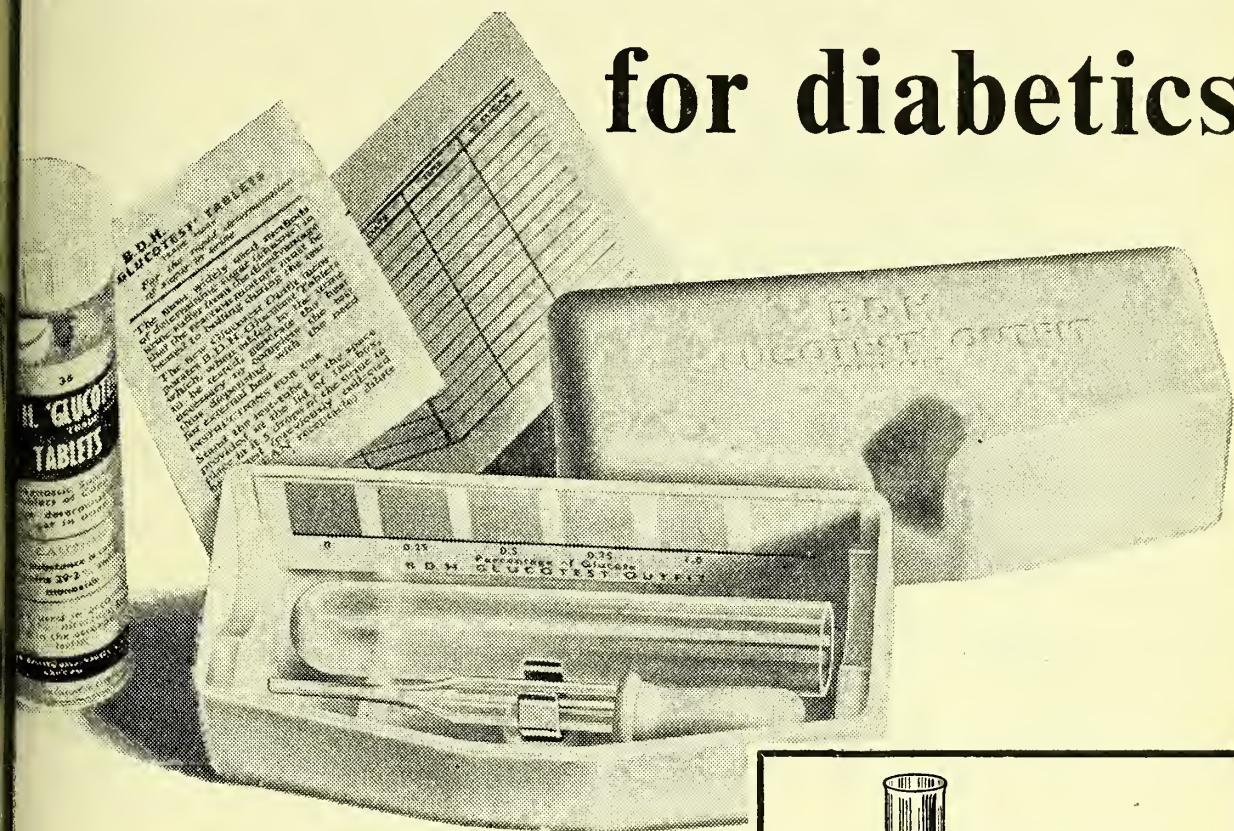
In 4 oz. bottles



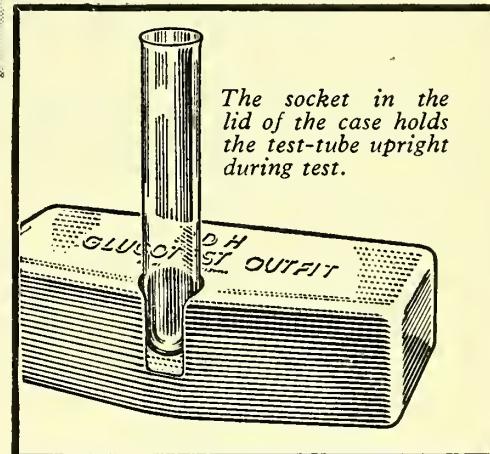
*Wyeth*

John Wyeth & Brother Ltd.  
Clifton House, Euston Road, London, N.W.

# new urine test outfit for diabetics



- \* Convenient
- \* No external heat
- \* Compact
- \* Attractive



This new B.D.H. Glucotest Outfit in its neat cream plastic case provides all that diabetic needs to make quick and reliable urine-sugar tests and to keep precise records. Each outfit contains — B.D.H. 'Glucotest' Tablets, test tube, dropper, colour chart and record sheet.

## B.D.H. 'GLUCOTEST' OUTFIT

Complete outfit	...	...	...	Trade 7/-	Retail 10/6
Tubes of 36 B.D.H. Glucotest Tablets				„ 2/4	„ 3/6

THE BRITISH DRUG HOUSES LTD. LONDON N.1

**FOR HOME & EXPORT**

**PARA AMINO SALICYLIC ACID  
AND SODIUM SALT. In bulk and tablet form  
POTASSIUM GUAIACOL SULPHONATE**

(Thiocol)

**SULPHADIAZINE TABLETS**

**BISMUTH SALTS**

(FOR EXPORT ONLY)

**BROMIDES**

**ARRHENAL**

**M.W. HARDY & CO. LTD.**

6 BILLITER STREET, LONDON, E.C.1

TELEPHONE: ROYAL 8343 (10 LINES)

TELEGRAMS: HARDICH

**JKL**

**ANIS OIL**

**AGAR AGAR**

**ALOES CAPE and CURACAO**

**BELLADONNA LEAVES and ROOT**

**BERGAMOT OIL**

**CAMPHOR, JAPANESE**

**CHILLIES**

**CINCHONA BARK**

**DIGITALIS LANATA**

**LIQUORICE ROOT and JUICE**

**MENTHOL CRYSTALS**

**ORANGEPEEL**

**PEPPERMINT OIL**

**SAGE LEAVES**

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and all other crude Drugs, Essential  
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**JOHN KELLYS (LONDON) LTD.**

**24 OLD BROAD STREET, LONDON, E.C.2**  
Telephone: LONDON Wall 4882, 6585, 6586  
Telegrams: "Ergotine, Stock, London"

**NEW YORK: Kellys America, Limited,  
2 Broadway, New York, 4.  
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**Alfan**

Tablets are now being widely pre-  
scribed on N.H.S. and bring relief  
when sold over the counter.

● Alfan is a Pink A.P.C. tablet with  
Calc-Phos and Phenolphthalein. You  
can safely recommend it to give  
quickest results for the relief of Head-  
aches, Colds, Rheumatic and neuralgic  
pains, etc.

● Retails @ 1/- trial size, 25 @ 2/-,  
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Cost 6/9, 13/6, and 25/- doz. plus ½  
Dispensing 100 @ 4/- tax free.  
Opening order @ 14 to the doz.

From your Wholesaler or Distributor:  
Amblins Sales Co., Ltd., Kilburn, N.W.  
Abbotts Druggists Ltd.

More Mothers choose  
**Griptight**  
 FEEDTEATS  
 than any other



You can recommend the GRIP-TIGHT Feedteat with every confidence. More Mothers choose this brand because it gives entire satisfaction and is recommended by many leading Hospitals, Clinics and Welfare Departments. They are extra carefully pierced and are available in fifteen

different shapes. Made in best quality rubber Latex they have extra long life and retain shape for at least 500 feeds. Hygienically packed in transparent wrappers and attractively carded or boxed. Guaranteed three years' store life in any climate.

Write enquiries to: **LEWIS WOOLF LTD., 144 Oakfield Road, Birmingham 29**



If it's well **TAPED...**

It's taped with self-adhesive

INDUSTRIAL SPEEDFIX Double-Bonded Cellulose in Transparent, or Coloured, Plain or Printed on single or double-ply tape.

**Cloth • Glass-fibre • Paper • Masking Tapes • Electrical Tapes**

self-adhesive it's

**INDUSTRIAL TAPES LIMITED**

92-94 Newman Street, London, W.I. Museum 4215-6-7

# We are TOTALITARIANS

## ABOUT CORKS

LET'S admit it. So far as corks are concerned, we're out-and-out dictators. Regimentation, standardization—these are our watchwords. We plead guilty to our reputation for reducing corks to a state of *unbelievable* uniformity.



"Want to be different, eh?"

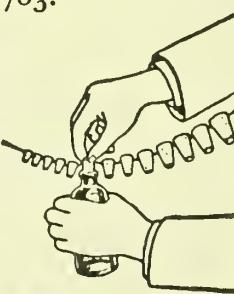
We do it by sheer ruthlessness. Corks hate us! Boiled alive, pressed flat, shut in the dreaded "hot-box," they are then sliced and punched, tapered, sanded, notched, bleached and branded—no atrocity is spared to stamp out individuality.

Not a cork can escape; many are completely eliminated. Sometimes only 5 per cent. of a *whole batch* survive to become corks of our Grade A quality. If a cork is even 1/63rd of an inch too small, it is pitilessly rejected and ground into by-products.

\* \* \*

IF YOU, too, feel totalitarian about corks, and want them, in each grade, as uniform in size and quality as skill and experience can make them—please get in touch with us by letter or telephone. Armstrong Cork Company, Ltd. (Closure Division), Kingsbury, London, N.W.9. Telephone: Colindale 7080. Scottish Branch: 5 Oswald Street, Glasgow, C.1. Telephone: Central 5703.

**FREE ON REQUEST.** The handy Armstrong String of Standard Cork Sizes shows at once what size you want—whether for dispensing or for ordering supplies. May we send you one?



## ARMSTRONG'S CORKS

CORKS · CROWN CORKS · MOULDED CAPS

## WHY MISS SALES?

Satisfy  
all needs  
and suit  
every  
Pocket



## SAN TOWELS

MADE WITH FINEST MATERIALS.

SOFT KNITTED COVERING WITH LOOPS  
HIGHLY ABSORBENT, BEAUTIFULLY SOFT.  
HYGIENIC, ECONOMIC

"ANITA"—All Wool, soft knitted covering with loops.

Reg. Size 1	Trade 18/9	Retail 2/1	packet of
" " 2	per 22/6	"	2/6
" " 3	gross 27/-	"	3/-
" " 4	33/-	"	3/8

"SOLUCEL"—Soluble Cellulose Pad, with loops.

Reg. Trade 16/1½	Retail 1/9½
------------------	-------------

"COTOCEL"—Cotton Wool with highly absorbent Cellulose centre, knitted covering and loops.

Reg. Size 1	Trade 17/7½	Retail 1/11½
" " 2	21/-	"

**M. MERICA & CO. LTD.**

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Telephone : MAIn 5803



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KATWIJK-ANN-ZEI  
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PURE, SODIUM AND CALCIUM

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# IMPORTANT WARNING re Adrenaline Creams

**B**EFORE stocking any Adrenaline Cream for the treatment of Rheumatic troubles, Pharmacists should assure themselves that the Adrenaline content is fully stabilised.

Otherwise the cream will be valueless for this purpose.

Lloyd's Adrenaline Cream, the actual cream used by the Doctors who developed this treatment, has been certified by independent Analysts (*Medical World* 4th November, 1949) to retain its Adrenaline potency for upwards of 12 months. This analysis covered a period of over three years, ever since, in fact, we commenced to manufacture the cream in collaboration with them and to their specifications.

So far as is known, it is the only Adrenaline Cream in the world thus certified. Copies of the report will gladly be supplied upon request.

Lloyd's Adrenaline Cream is sold in 2 oz., 4 oz. and 16 oz. jars at 5/-, 7/-, and 15/- less usual discount. It is free of Purchase Tax.

Supplies can be obtained through any wholesaler or direct from:

**HOWARD LLOYD & CO. LTD.**  
20 ASFORD BY STREET, LEICESTER

Telegrams: "Colloid, Leicester."

Telephone: Leicester 5423

THE  
SYMBOL  
OF



QUALITY  
AND  
SERVICE

SPECIALISTS IN THE  
MANUFACTURE OF

## Aspirin Salicylates and Allied Products

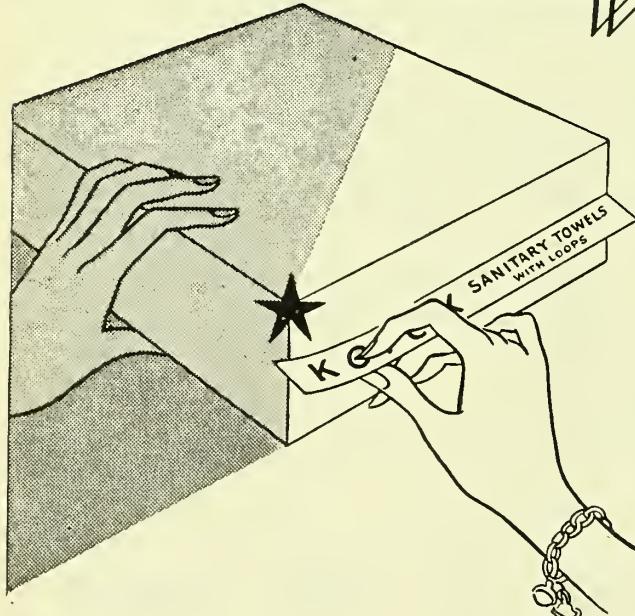
Although Aspirin and Salol are readily available, certain Salicylates are still in short supply but we will do our best to meet your requirements.

**Graesser  
Salicylates Ltd.**

SANDYCROFT

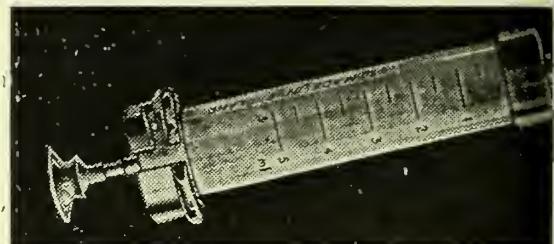
NEAR CHESTER

Phone: Hawarden 2125. Grams: Quality, Chester



★ Simply remove the perforated strip and the plain box is ready for sale.

*Kaycee*



## HYPODERMIC SYRINGE

WHOLESALE AND EXPORT ONLY

Illustrated Folder and Price List on application



Manufactured by,  
**KENNETH CASTIGLIONE LTD.**  
Quadrant Works, Manor Park Crescent, E.  
Middlesex, England. Tel.: EDGware 1633



ALL EXPORT ENQUIRIES TO :  
**KAYCEE HYPODERMIC SYRINGES**  
Quadrant Works, Manor Park Crescent, E.  
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Cables: KAYCEE, EDGWARE, ENGLAND

*Women prefer*

**KOTEX**

**SANITARY TOWELS**

(WITH LOOPS)

Because demand exceeds supply  
please do not blame your wholesaler  
should he be unable to meet your requirements.

*When the prescription calls for*  
**ELASTIC ADHESIVE BANDAGE**  
**DISPENSE**



Its resilience and retraction provide a firm and comfortable support appreciated by the Medical Profession.

**NEW TARIFF PRICES**

$2'' \times 3$  yds.....39/- per doz.    $3'' \times 3$  yds.....46/- per doz.

*Also made in the following sizes:*

$1'' \times 3$  yds.

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**EDWARD TAYLOR LIMITED**  
**MONTON • LANCS**

ESTABLISHED OVER 100 YEARS

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**SUPREME  
BRANNAN  
ACCURACY**

**THERMOMETERS**  
Clinical Household Industrial etc

**S. BRANNAN & SONS LTD.**  
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**FOREST HILL, LONDON, S.E.23.**  
phone For. Hill 3414-5  
and at Cleator Moor, West Cumb.

**Ammonium Carbonate**  
**Chalk—Precipitated and Prepared**  
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SUCCRS. LTD.  
1 BOOTH STREET, MANCHESTER

Established 75 years

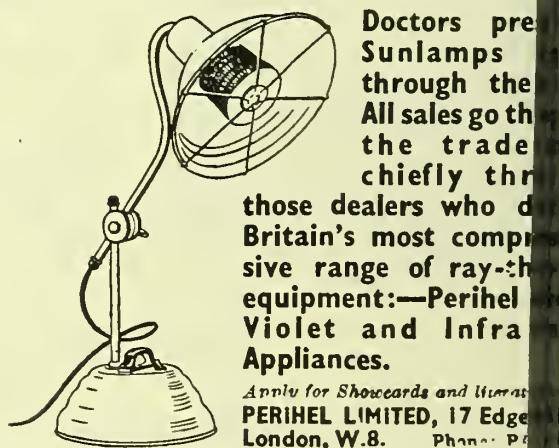
**SURE-SELLING STOCK!**

OVER 150 YEARS REPUTATION

**KEARSLEY'S**  
THE ORIGINAL  
**WIDOW WELCH'S FEMALE PILLS**

9d. BOX PROFIT by ordering 1 dozen  
3/3½ size. Bonus given on every  
dozen (13). It pays to push this size

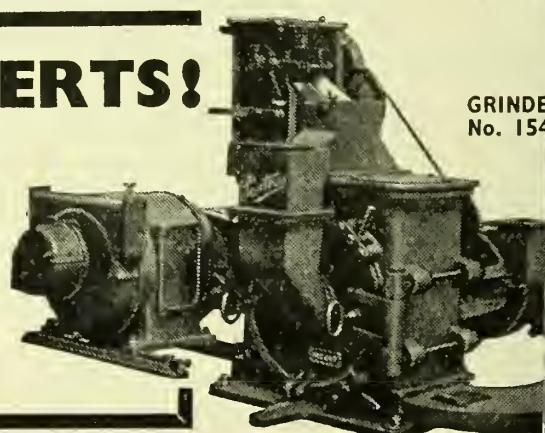
**C. & G. KEARSLEY LTD.**  
71 Dartmouth Rd., London, S.E.23  
EST. 1797



## CALL IN THE EXPERTS!

The best way to ensure satisfaction in grinding is to call in the experts—Porteus. Not only do they know what exactly is required, but they can and do invariably advise on the best type for the job in hand. Lengthy experience in design and construction is at your service—why not write now?

**GEORGE PORTEUS & SONS (Leeds) LTD**  
Provender Milling Specialists  
LEEDS BRIDGE WORKS, LEEDS 10



# PROFITABLE COUNTER LINES

<b>HEWLETT'S ANTISEPTIC CREAM</b>	-	-	Retails at <b>2s. 9d.</b> per tube
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	Approx. 1½ oz.		
<b>FORMALGAR GARGLE and MOUTHWASH</b>			„ „ <b>1s. 1½d.</b> per bott.
	2 oz.		
<b>VONAGEN TONIC</b>	-	-	„ „ <b>4s. 3d.</b> per bott.
	8 oz.		

These prices apply in the United Kingdom only

ALL ARE FREELY AVAILABLE THROUGH YOUR USUAL WHOLESALER

OR DIRECT FROM

**J. HEWLETT & SON LTD., 35/43 Charlotte Road, London, E.C.2**

and at 216 ORR STREET, GLASGOW, S.E.

## MOSELEY MOULDED HOT WATER BOTTLES

*A warm line  
for cold nights*

MOSELEY moulded hot water bottles are supplied in red, green or blue, whilst the moulded cot hot water bottles can be had in a variety of attractive pastel shades. Handmade, fabric reinforced hot water bottles are supplied in red or white.

# MOSELEY

Further details and terms from:—

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54 GEORGE ROAD (ISLINGTON ROW) EDGBASTON, BIRMINGHAM 15



EST 1833

BM1

# Why these strained foods are better than home-prepared



57

IN PREPARING STRAINED FOODS, a mother, however careful, is likely to lose valuable nutrients by cooking in open saucepans, and by over-cooking. Instead of sieving she often mashes the foods, leaving indigestible lumps.

The vegetables and fruits in Heinz Strained Foods are grown in the famous market-garden area of Ormskirk near their Standish Factory. The foods are cooked by the methods that retain their maximum nutritional value, and sieved to the correct consistency for the infant's digestion and bowel.

*You can therefore recommend  
HEINZ STRAINED FOODS  
to mothers with complete confidence*



H. J. Heinz Company Ltd.  
Harlesden, London, N.W.

## ROSE'S FRUIT SQUASHES now specially prepared for DIABETICS

REFRESHING Lemon and Orange Squashes can now be enjoyed by Diabetics, 3/- a bottle. They are specially prepared without added sugar by the well-known makers of Rose's Lime Juice.



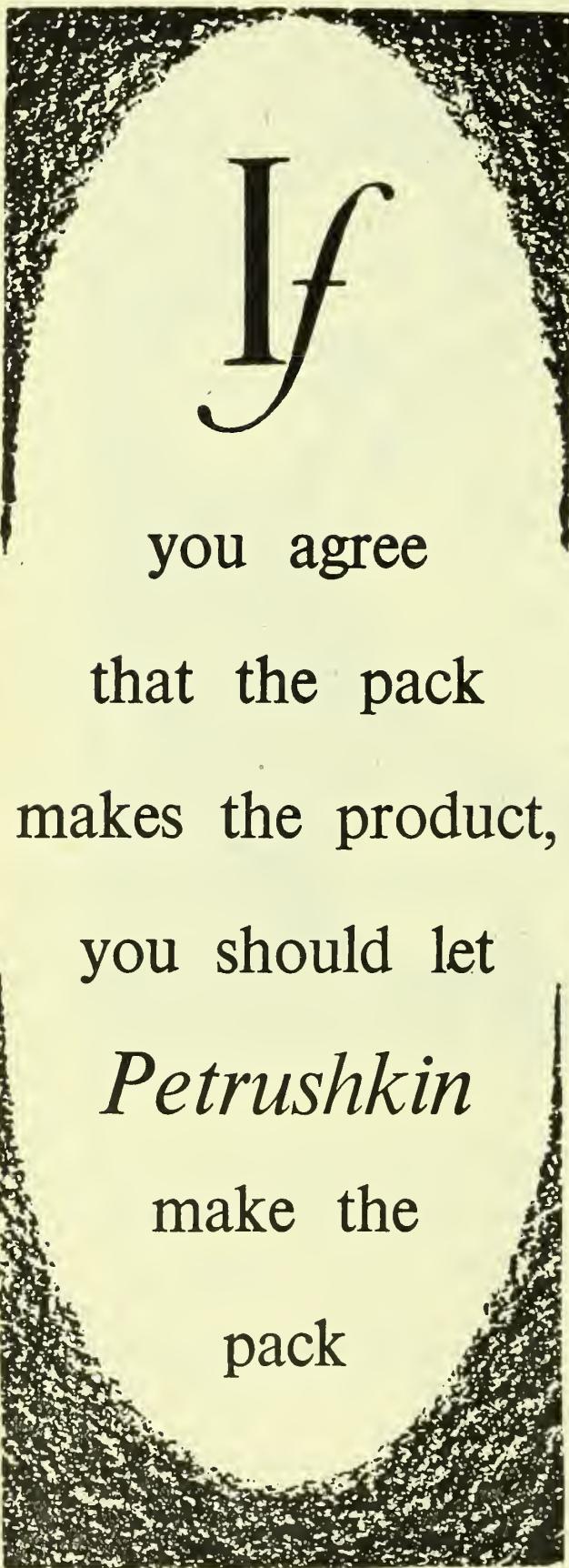
Importers and Exporters of Pharmaceutical Chemicals.

All types of Botanical and Crude Drugs for prompt delivery from stocks or shipment from origin.

**Established 1890**

*Cables: Windschuegl London*

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M. PETRUSHKIN LIMITED. *Established 1894*  
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**ZEAL**

**Clinicals**

**The Choice  
of Experts**

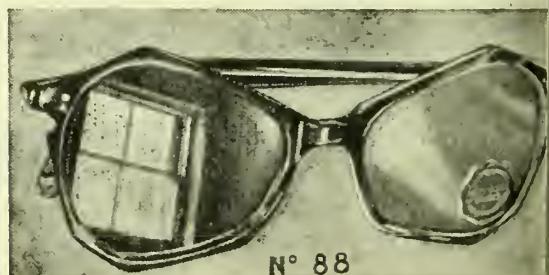
**BRITISH  
MADE**

**NO HIGHER  
IN PRICE THAN  
NONDESCRIBED  
MAKES**

*Also Household, Bath  
and Works Thermometers  
the best of their kind*

**G.H. ZEAL LTD**  
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Phones: Liberty 2283-4-5-6 and Liberty 421



Now also with mirrored "NUPROSA" lenses in Silver, Blue, Green, Gold, Red, steel-blue at popular prices.



MANUFACTURING OPTICIANS  
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WHOLESALE and EXPORT ENQUIRIES INV

another **ZAL**  
half-page  
advertisement...

IN THE  
"DAILY EXPRESS"  
on AUGUST 9th!

Keep your home nice and sweet—and  
your family safe with



**ZAL**  
PINE FLUID

**disinfectant**

with the real pine smell!

YOU ARE WISER THAN YOU KNOW  
WHEN YOU CHOOSE ZAL.



ZAL is made by the makers of ZAL products, who have led in the scientific development of disinfectants for over 60 years. For since generations their chemists and bacteriologists have been working for the protection of the people of Britain against all sorts of diseases. It is more than likely that ZAL products are used in your child's school and your husband's office or works and public libraries. So you see that you can be absolutely sure about the ZAL because you can trust the firm that makes it.

Go for safety—go for ZAL freshness!

Where babies crawl and children play  
use ZAL to prevent from spreading disease.  
ZAL is the best protection from germs.  
ZAL is the bathroom and laundry strong  
disinfectant. ZAL is the best for safety and  
freshness. A few drops of ZAL

For your health—little personal luxury

A few drops of ZAL keeps the kitchen  
and bathroom clean and fresh all day.  
Whenever there are visitors ZAL should  
be at hand—the first rule for safety and  
freshness. A few drops of ZAL

For your health—little personal luxury

ZAL is the germ-killer with the lovely fresh pine smell. It makes your home nice and sweet and safe. Much more powerful than pure carbolic, it disinfects thoroughly without staining, and is harmless to everything except germs. Use ZAL in your bathroom and lavatory, for sinks and drains, for floor-washing, in the sickroom and in your bath. Be sure you ask for ZAL—it is made by a firm trusted for over 60 years—the makers of the famous Zal disinfectants for schools, public buildings, homes, factories and offices. Get a bottle TO-DAY!

only 1/- for a big value bottle

Extra large size 1/6

NEWTON, CHAMBERS & CO. LTD., THORNCLIFFE, SHEFFIELD

**ZAL** marches on. Here is another half page in the daily newspaper with the biggest daily circulation in the country. An advertisement of this size, in this newspaper, has an enormous influence on the housewife's choice. Be ready to get your share of the sales. Give Zal a big counter display.

NEWTON  
CHAMBERS  
& CO. LIMITED  
Thorncliffe, Sheffield

FOR DESTROYING RATS and MICE  
**HALLER'S EXTRACT OF SQUILL**  
is always in demand as it is a standard  
product, controlled by Bio-assay tests.

For the destruction of  
Beetles, Cockroaches, Crickets, etc.,  
USE  
**“DANZO BEETLE POWDER”**

**“ CADOG ”**

Parasiticide and Insecticide in liquid form  
destroys all kinds of noxious insects:—

Bugs, Lice, Fleas, Moths, etc.

Address all enquiries for preparations for the  
destruction of Domestic Pests to:—

**HALLER LABORATORIES, LIMITED**  
325, BOROUGH HIGH STREET, LONDON, S.E.1

# DRUMMER DYES-

*Successful  
home  
dyeing  
leads the  
way for  
Successful Sales*

**WILLIAM EDGE & SONS LTD.**  
BOLTON



## It's Catching On!

*The* **Sugo**

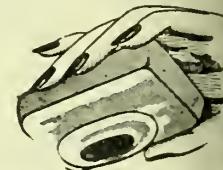
### SOAP SAVER

**“ SUCH A GOOD IDEA ! ”**

is the comment of housewives everywhere  
on the simple ingenious SUGO.

Numerous mentions of the SUGO SOA  
SAVER in the National Press Women  
Pages have pulled enquiries from all over  
the country.

Retailing at 6d. the SUGO in 8 pretty  
colours has many uses,  
but its chief virtue —  
soap-rationing or no ! —  
is that it **SAVES  
ONE TABLET IN  
THREE.**



48/- per gross including tax.

Send for sample, Display Card and Post Paid order  
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Dept. C/SALES  
**SUGO PRODUCTS LTD**  
Union Chambers, Weekday Cross, Nottingham

## GUM TRAGACANTH

**GUM KARAYA**  
WHOLE AND POWDERED

**M. HAMBURGER & SONS**  
DIRECT IMPORTERS  
Ceylon House  
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## “ CELLOPHANE ” BAGS

A FEW STOCK SIZES. ALL PER 1,000

1 $\frac{1}{2}$ x 2 $\frac{1}{2}$ ..	12/6	3 $\frac{1}{2}$ x 8 ..	35/-	5 x 5 ..
2 $\frac{1}{2}$ x 4 ..	18/-	4 x 4 ..	23/6	5 $\frac{1}{2}$ x 6 $\frac{1}{2}$ ..
3 x 5 ..	24/-	4 x 7 ..	35/-	5 x 9 ..
3 $\frac{1}{2}$ x 6 $\frac{1}{2}$ ..	30/-	4 $\frac{1}{2}$ x 8 ..	37/6	5 $\frac{1}{2}$ x 10 ..

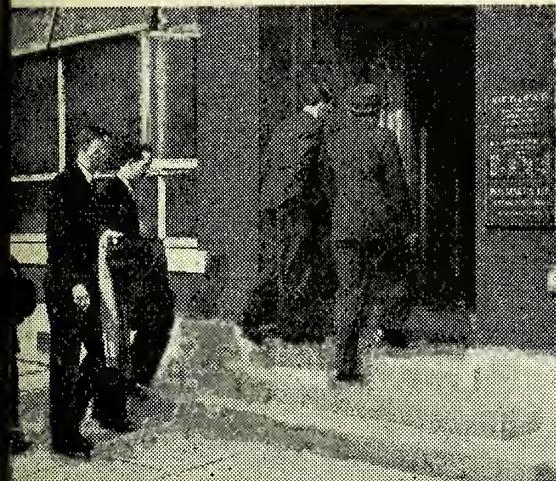
“ CELLOPHANE ” SHEETS FOR WRAPPING  
20 x 30. 55/- 500. Rolls. 5yds. x 20". 18/- d.  
Also ROLLS and SHEETS PLAIN and COLOURED

Large stocks of WINDOW DRESSING PAPERS,  
SAMPLES WITH PLEASURE.

**ALLAN'S** 37, FARRINGDON STREET, LONDON  
PHONE: CENTRAL 5947 'GRAMS: SUNFLECTA, CENTRAL  
(UNDER HOLBORN VIADUCT) Business Hours: 9 a.m. to 6 p.m. Closed Sat.

## THESE CHEMISTS AGREED

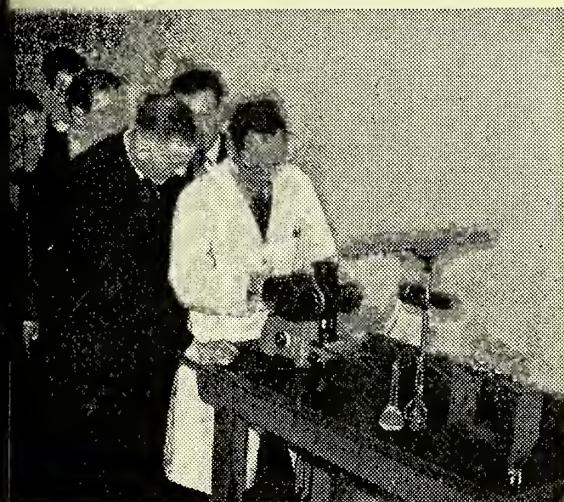
*We've learned a lot today"*



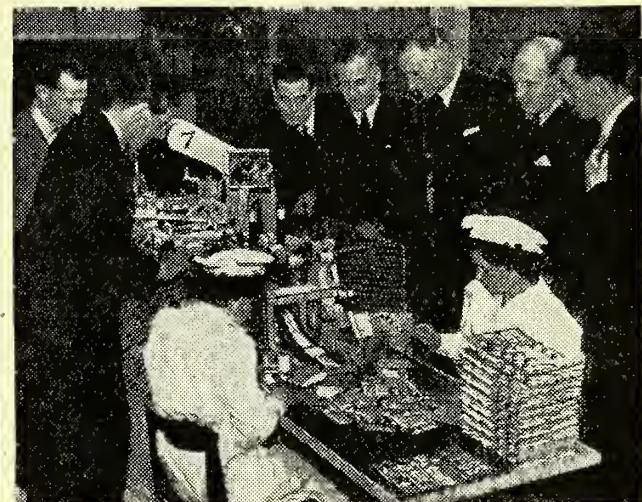
Professional visitors, singly or in groups, are always welcome at the Bob Martin headquarters. Here is a party of pharmacists arriving. During their visit they'll learn much about the composition and function of Bob Martin products.



Before beginning their tour, the visitors have a talk with our Chief Chemist. Here he is explaining how the 'Tibs' formula was evolved, and why its vitamins and minerals play so great a part in keeping cats healthy.



In the control laboratory, the visitors are shown the most modern instruments of analytical control—such as the absorptionmeter and the Spekker fluorimeter—which check the vitamins and mineral trace elements in every batch of 'Tibs.'



Finally, to the factory, where everything from raw material handling to ingenious powder wrapping and packing machines offers some point of interest. Time flies, but even a short visit gives chemists a store of information which proves most helpful.

MANY groups of chemists come considerable distances to see our headquarters in Southport and the information they gain about the composition and function of Bob Martin products proves of real value to them and to their customers. If you would like to make such a visit, we would be happy to arrange it. In the meantime, may we remind you that if you are not already in possession of our useful and informative Formulae Brochure, we should be glad to send you a copy on request.

B MARTIN, LIMITED, SOUTHPORT

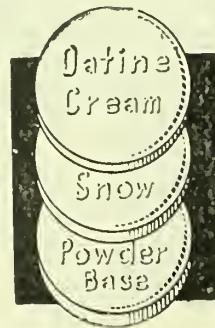


# 20,000 new 'Oatine' customers every month!

Every month an advertisement appears in Radio Times, with the largest periodical circulation in the world, to offer samples of Oatine Cream, Oatine 'Snow' or Oatine Powder Base.

As a result about 20,000 testers are, each month, invited to obtain further supplies, from their usual Retail Chemist.

One chain of shops reports 100% increase in Oatine sales since the advertising began. Take advantage of this business and order from your usual wholesaler or obtain Display Parcels on Bonus Terms, with show material direct.



# Let them see that YOU stock Oatine

THE OATINE CO. 44 Kennington Lane, London, S.E.11

CVS 46

FOR LIQUIDS OF  
EVERY CONSISTENCY

# MITCHELL

RAPID MIXING &  
STIRRING UNITS



For mixing liquids of every consistency, you need a mixer that is adaptable and versatile. We can fulfil both these requirements, and from our wide range, there is sure to be one for your particular job. Why not consult us?

The illustration shows a portable mixing unit, clamped to the side of a tank in a chemical works.

L. A. MITCHELL LIMITED  
37 PETER STREET · MANCHESTER

C. OLEY  
& Sons Ltd  
EST. 1844

CORKS,  
STOPPERS,  
ETC.  
Telephone ROYAL 4  
CAMPERDOWN STREET  
LONDON, E.I.

**The**  
**Chekaleke** Trade Mark

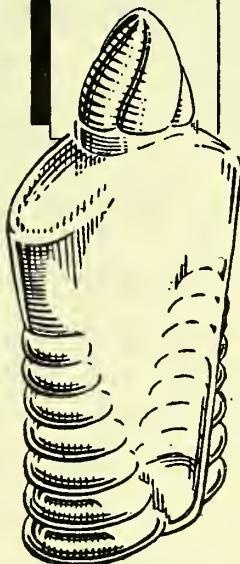
Bottle closure under  
PAT. No. 439062  
(Extension applied for)

**PLUG**

**The perfect seal**

**no leakage**

**no evaporation**



Regd. No. 860380

CHEKALEKE PLUGS ARE  
MADE FOR ALL STANDARD  
SIZE OPENINGS AND A  
FULL RANGE OF SAMPLES  
WILL GLADLY BE SENT  
ON REQUEST

*Produced by the makers of the finest glass containers*

**THE INTERNATIONAL BOTTLE CO LTD**

PHONE:  
MAYFAIR 6992  
(5 LINES)

140 PARK LANE, LONDON, W.I

GRAMS:  
AUTREFOIS, AUDLEY  
LONDON

# GREY HAIR?

**THE ANSWER IS**

## INECTO-RAPID

- ★ *The best-known hair dye all over the world*
- ★ *Exactly reproduces nature's own colouring*
- ★ *Guaranteed permanent.*
- ★ *Unaffected by permanent waving*
- ★ *Clean and very simple to apply*

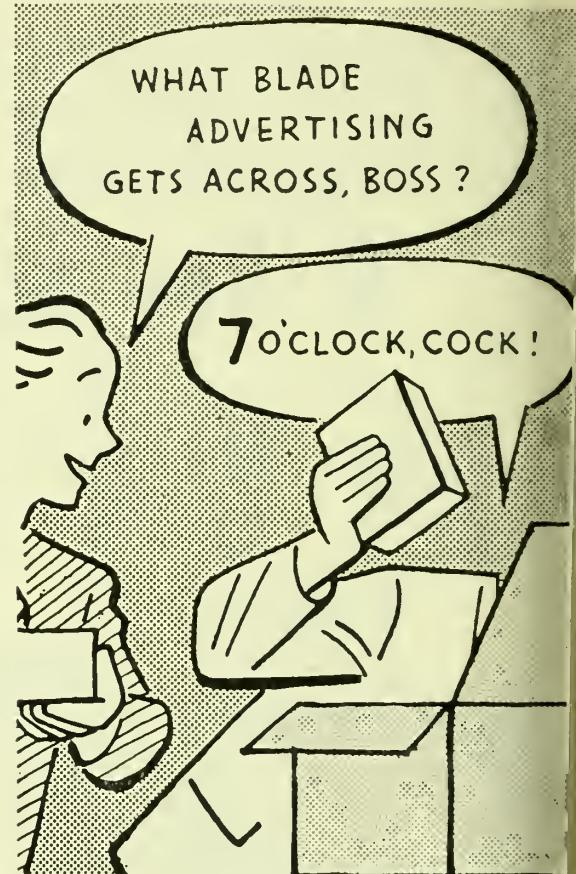
## INECTO

SUPPLIES THROUGH  
YOUR USUAL WHOLESALER

Prices are as follows —

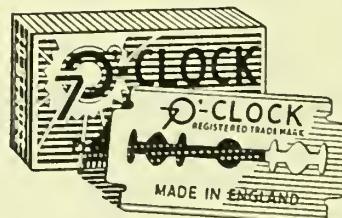
	WHOLESALE	P.T.	RETAIL
Full-size outfit (4 pairs of bottles)	84/- doz.	84/-	17/6
Trial-size outfit (1 pair of bottles)	30/- doz.	30/-	6/-

ENQUIRY BUREAU:  
INECTO HOUSE  
27 DOVER STREET, LONDON, W.1  
Telephone: Regent 7541



7 O'CLOCK advertising gets its message over in an entirely individual way. It's memorable—it packs a punch—and it's right in the public eye in the national press. And once a man has bought a packet of 7 O'CLOCK blades you can be sure the grand shaves he gets will bring him back for more.

## 7 o'clock BLADES



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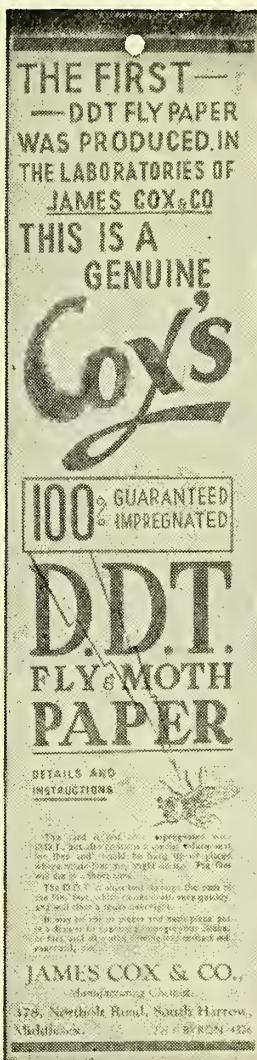
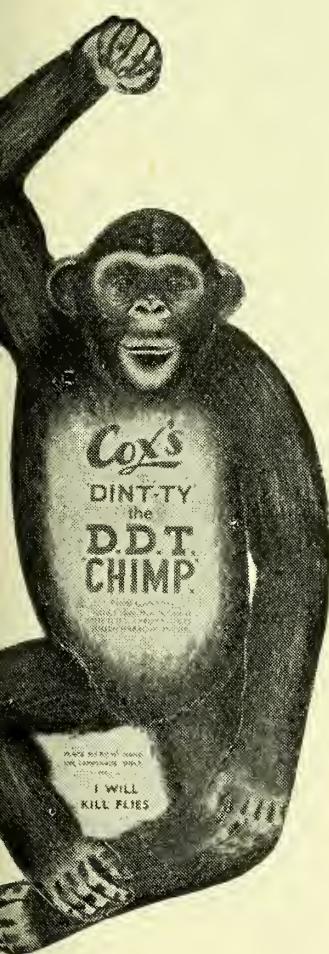
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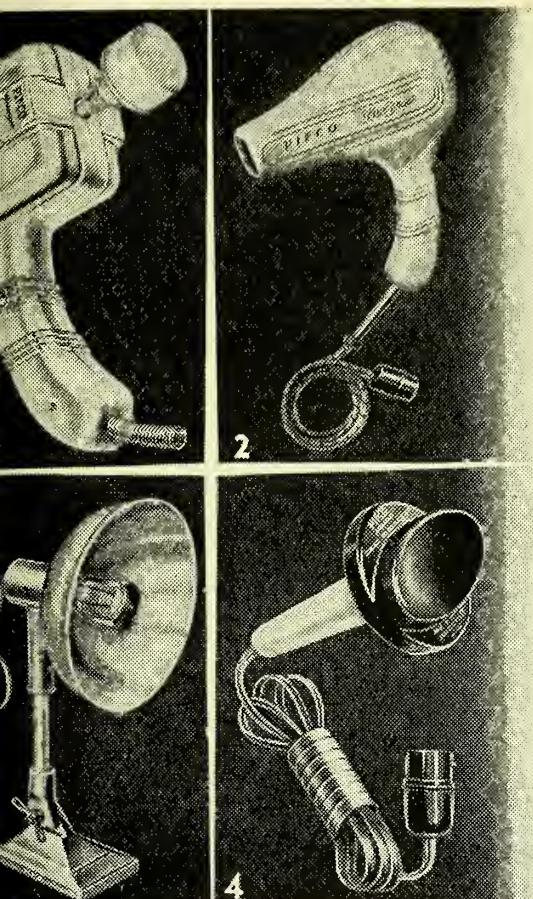
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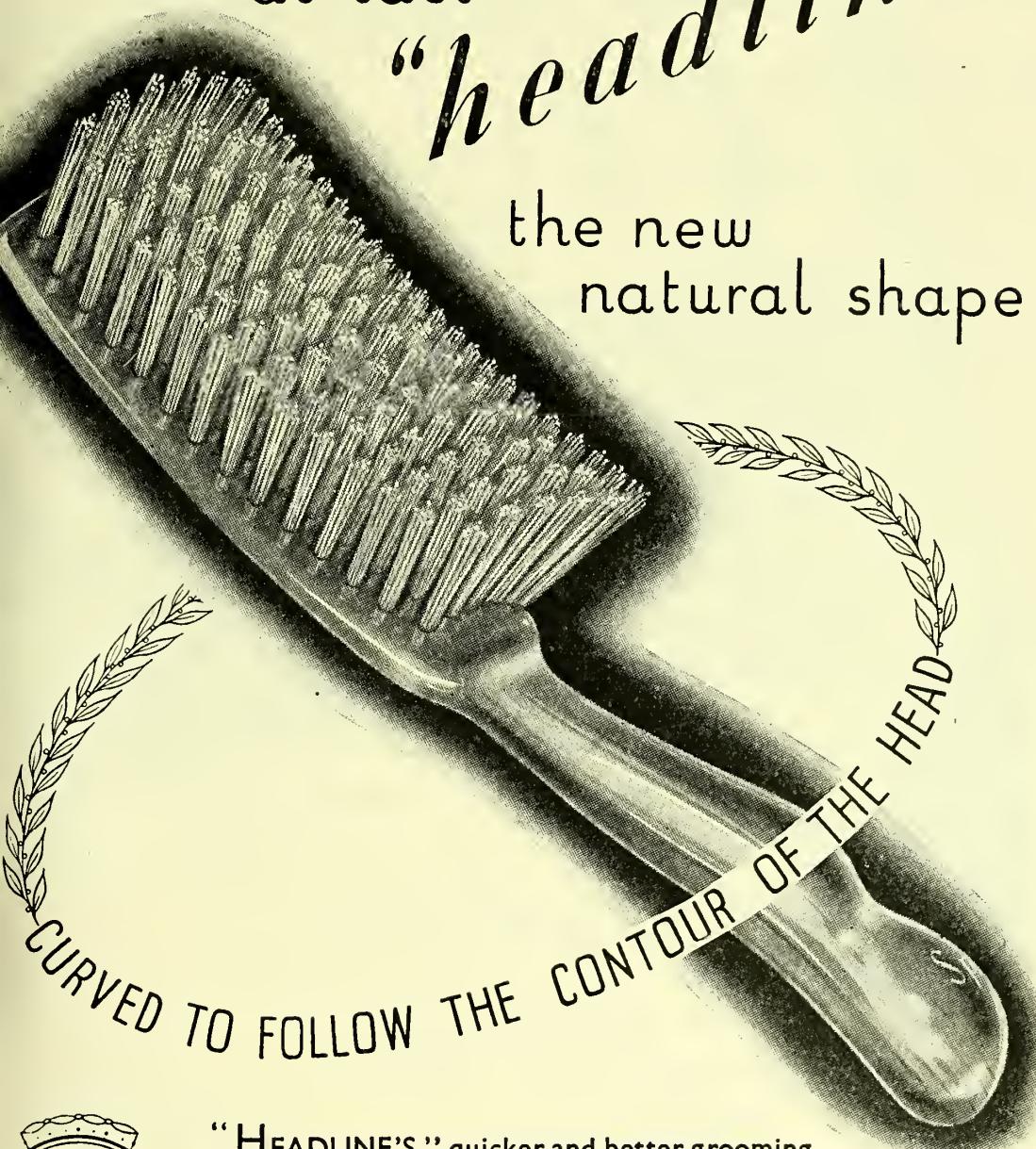
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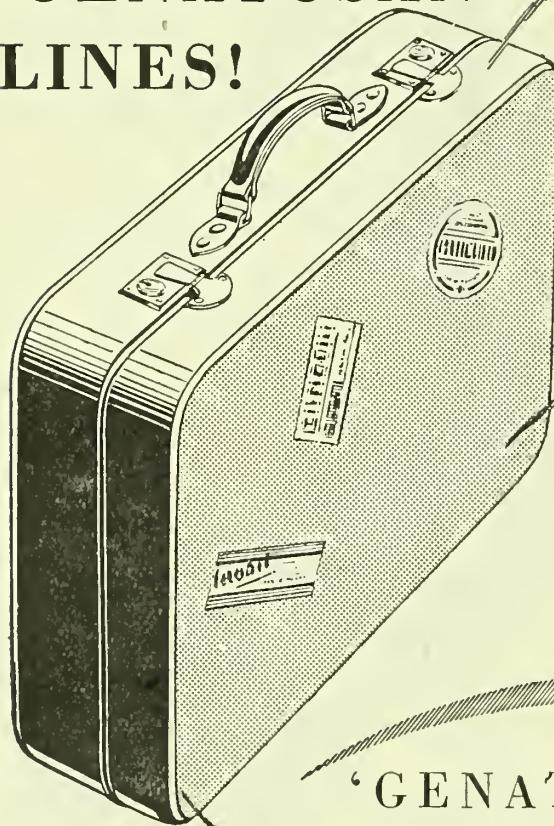
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